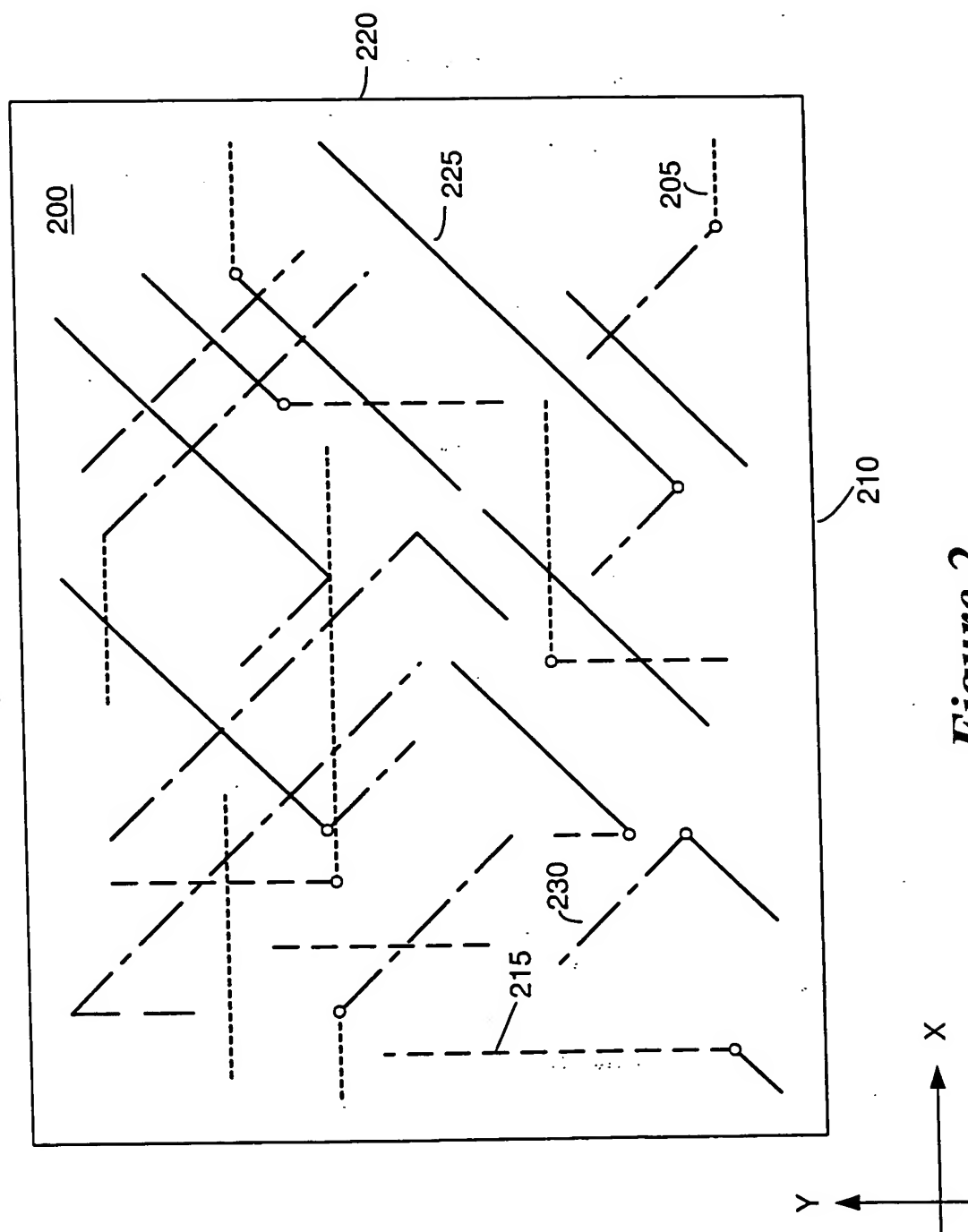


Figure 1

20-6000-011



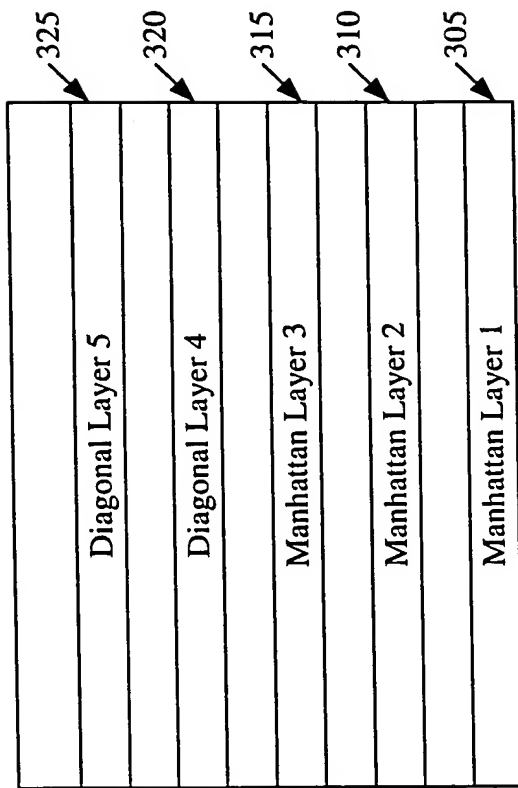


Figure 3

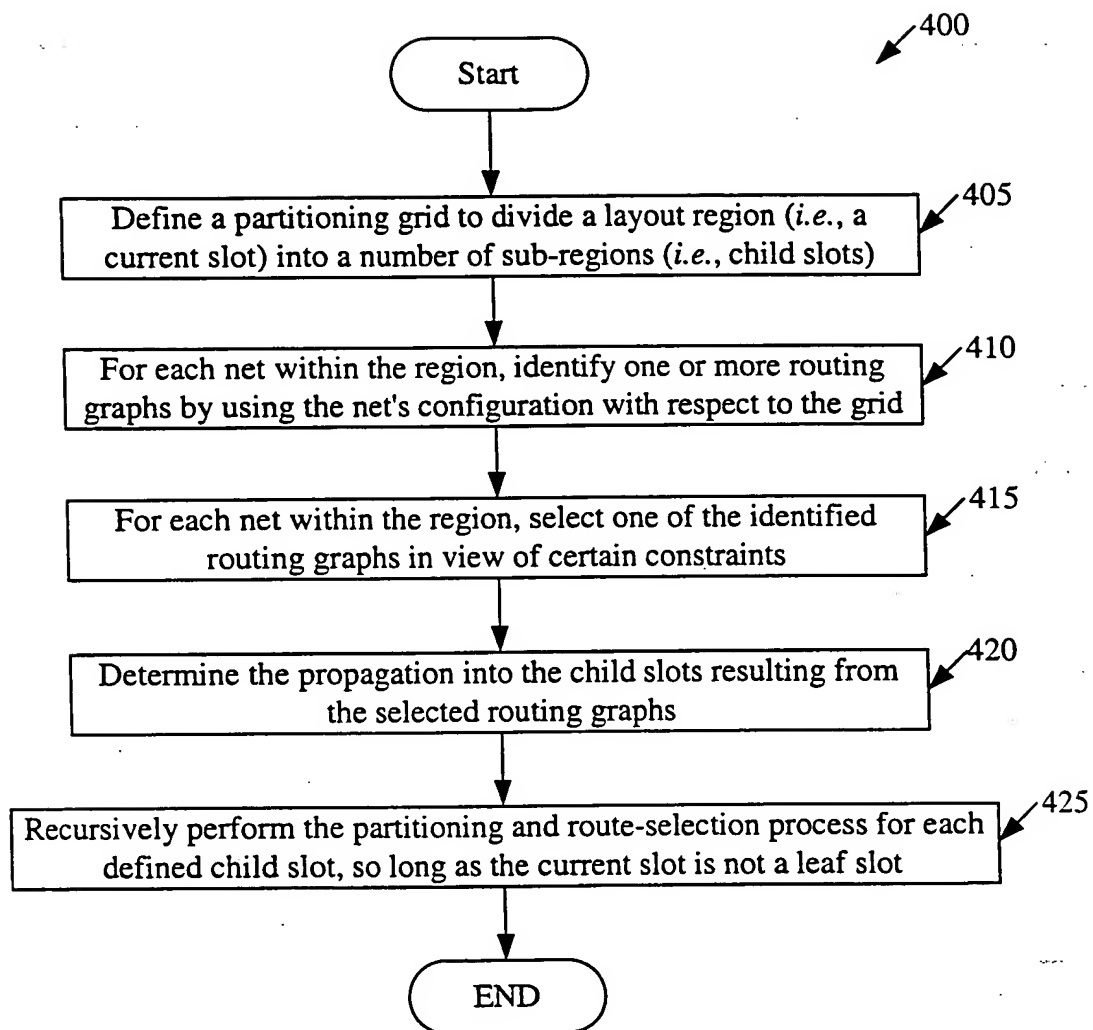


Figure 4

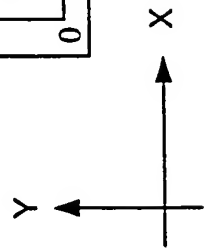


Figure 5

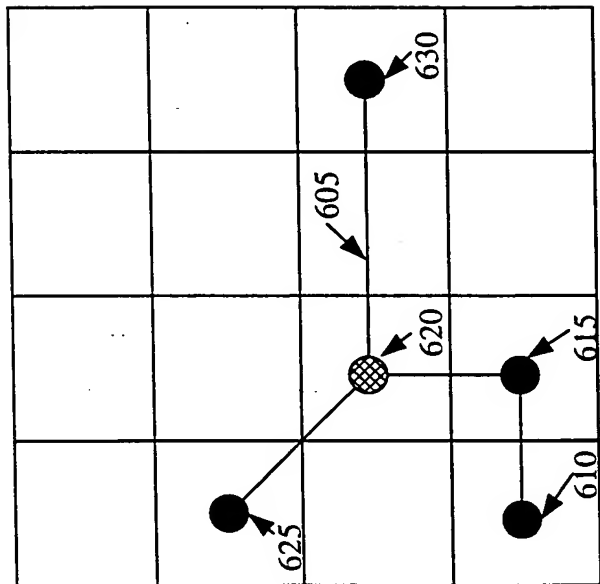


Figure 6

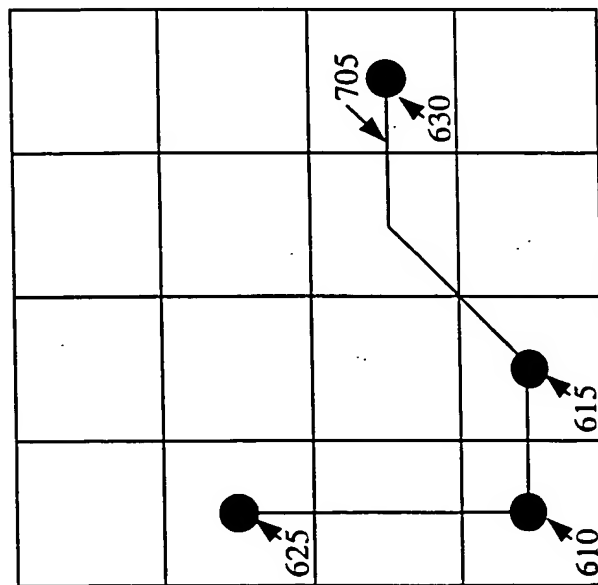


Figure 7

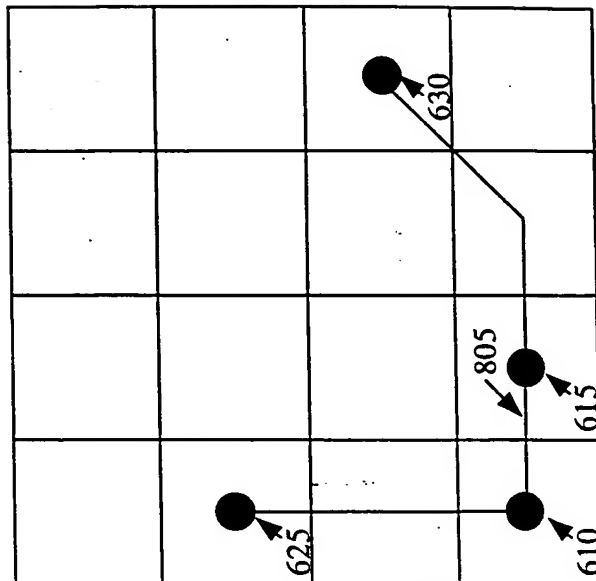


Figure 8

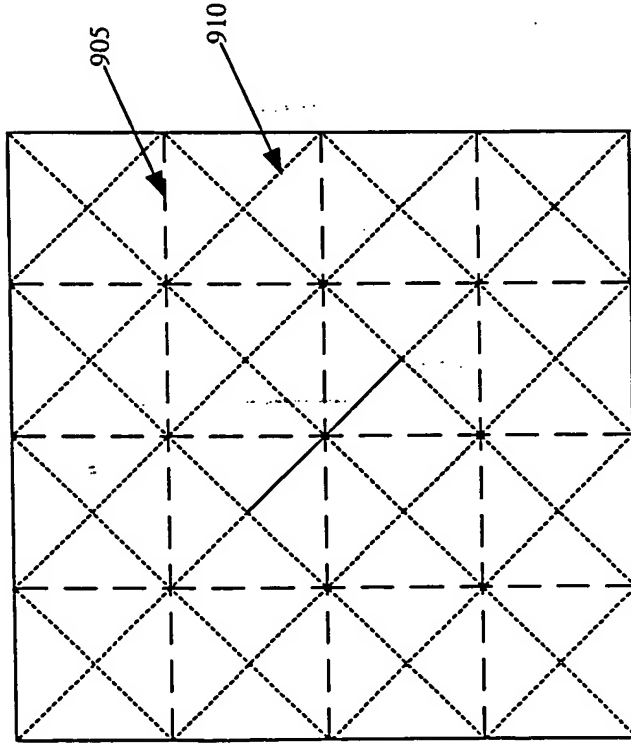


Figure 9

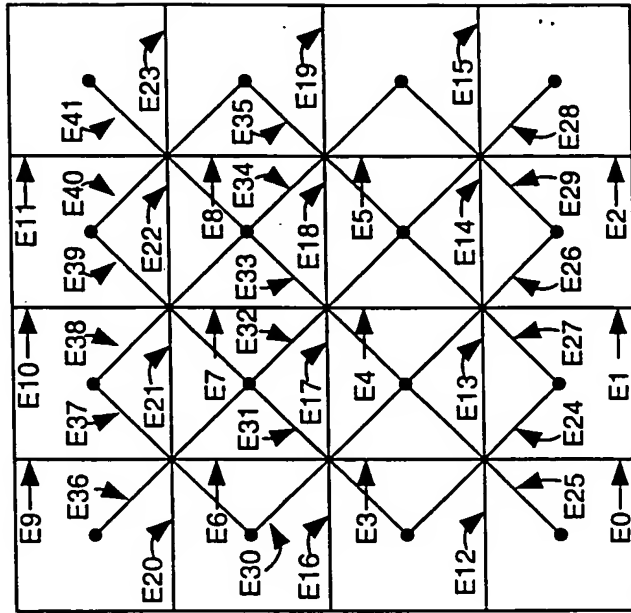


Figure 10

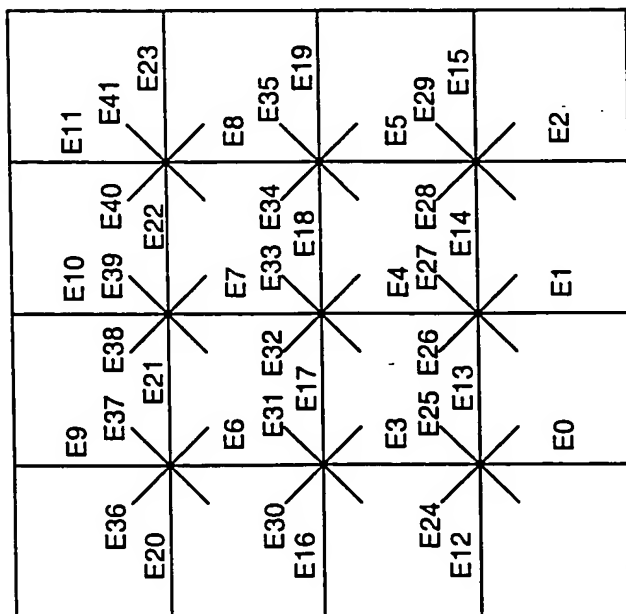


Figure 11

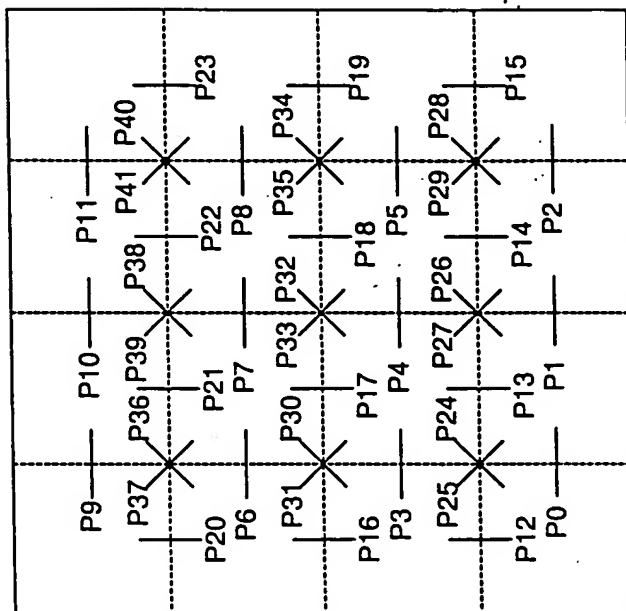


Figure 12

1049300-0130

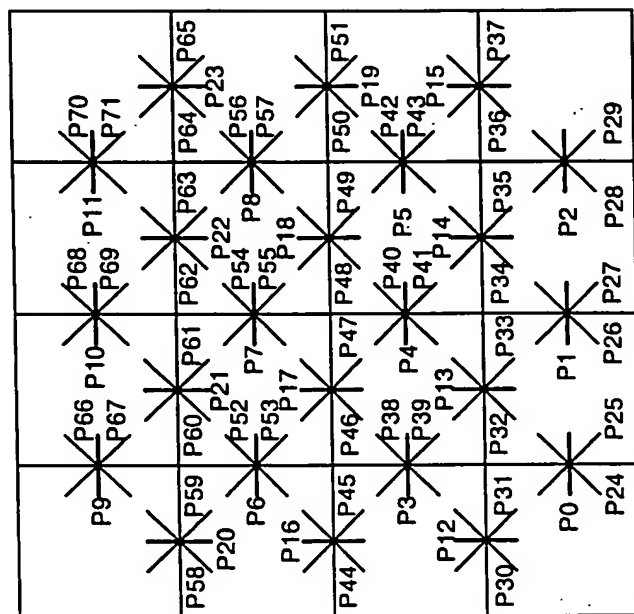
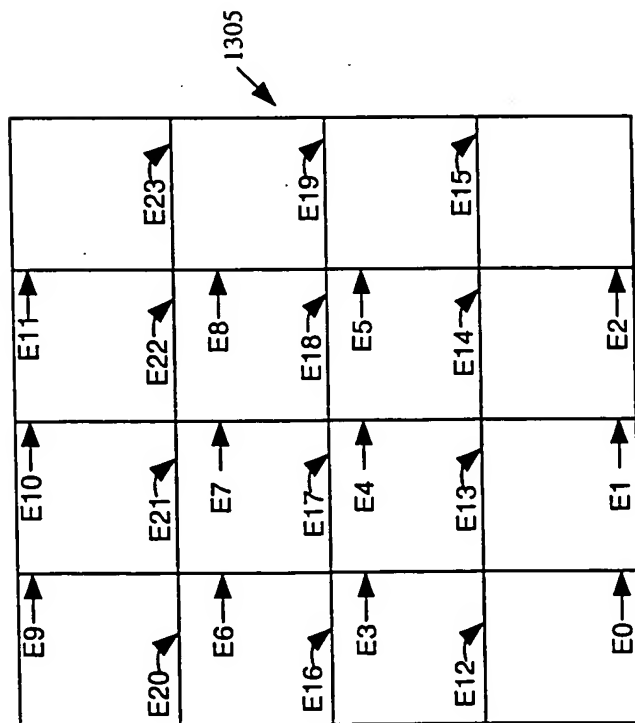


Figure 14

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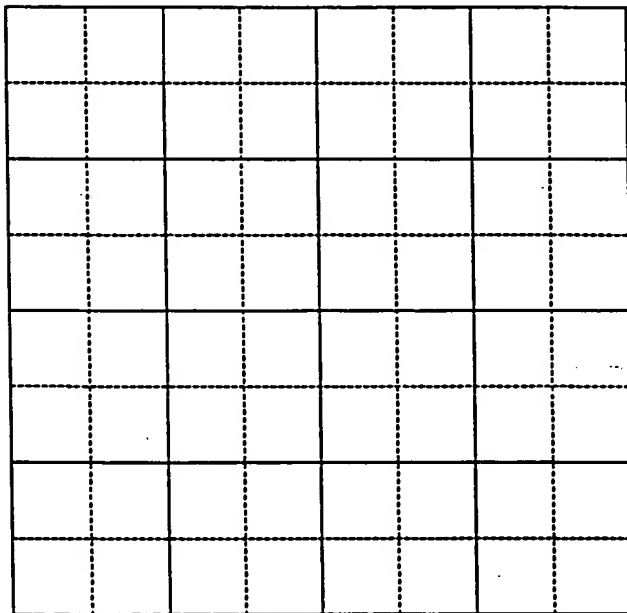


Figure 15

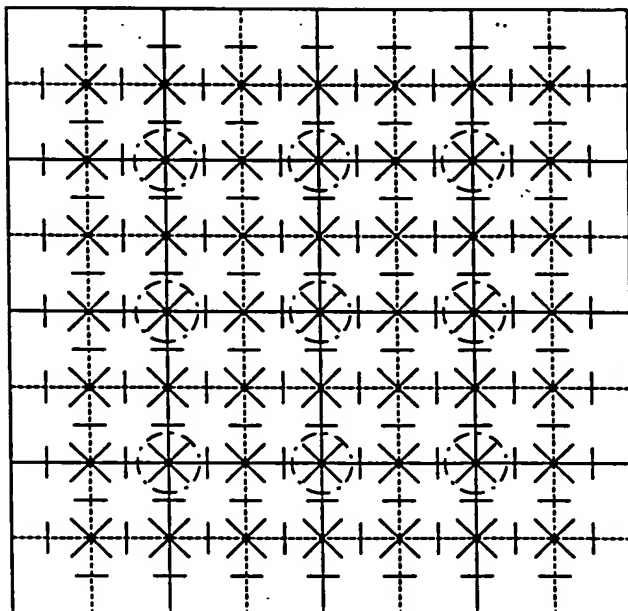


Figure 17

20EFT0 " 0008400T

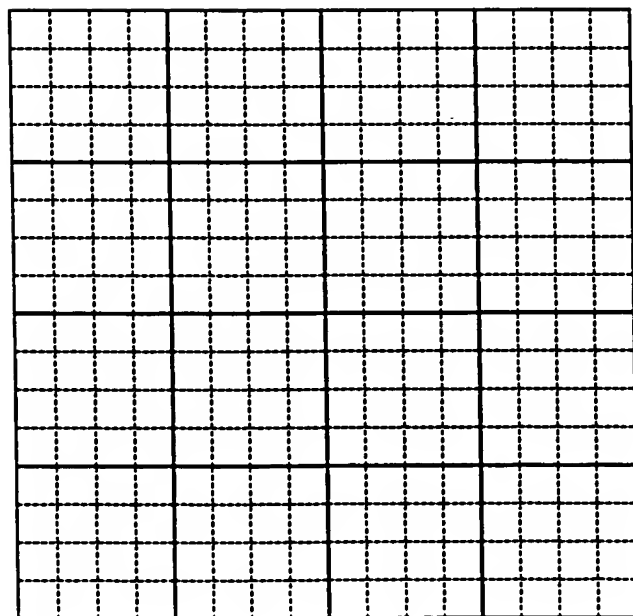


Figure 16

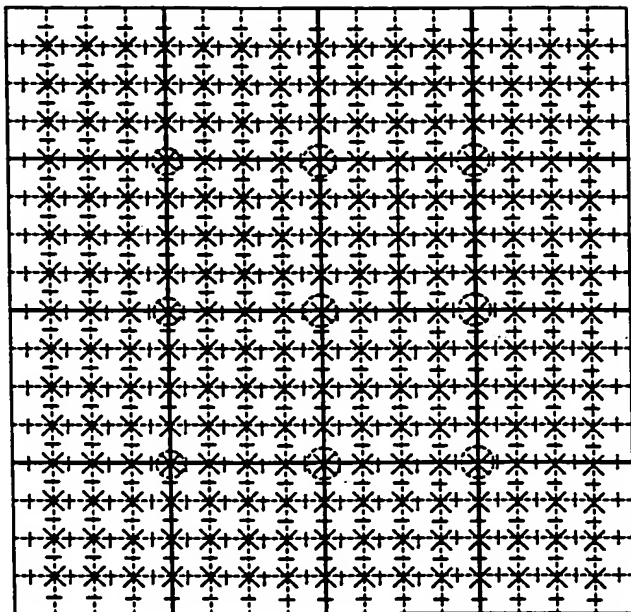


Figure 18

10048000 011302

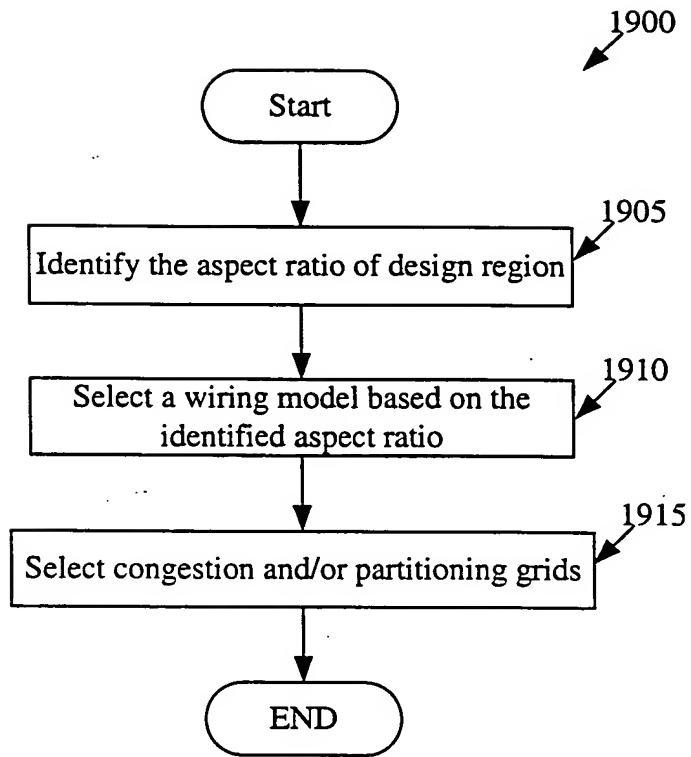


Figure 19

A blank Cartesian coordinate system with a horizontal x-axis and a vertical y-axis. The x-axis is labeled 'x' at its right end, and the y-axis is labeled 'y' at its bottom end. The two axes intersect at the origin, forming a cross shape. There are no tick marks or grid lines on the axes.



```

graph TD
    Start([Start]) --> D1{X1 > X2?}
    D1 -- Yes --> B1["X_Max = X1; X_Min = X2"]
    D1 -- No --> B2["X_Max = X2; X_Min = X1"]
    B1 --> D2{Y1 > Y2?}
    B2 --> D2
    D2 -- Yes --> B3["Y_Max = Y1; Y_Min = Y2"]
    D2 -- No --> B4["Y_Max = Y2; Y_Min = Y1"]
    B3 --> B5["Bounding box coordinates are (X_Min, Y_Min), (X_Min, Y_Max), (X_Max, Y_Min), (X_Max, Y_Max)"]
    B4 --> B5
    B5 --> B6["DX = (X_Max - X_Min); DY = (Y_Max - Y_Min)."]
    B6 --> D3{DX > DY?}
    D3 -- Yes --> B7["Long = DX; Short = DY"]
    D3 -- No --> B8["Long = DY; Short = DX"]
    B7 --> B9["Distance = [Long - {Short (cos a / sin a)}] + Short/sin a"]
    B8 --> B9
    B9 --> End([END])

```

Figure 21

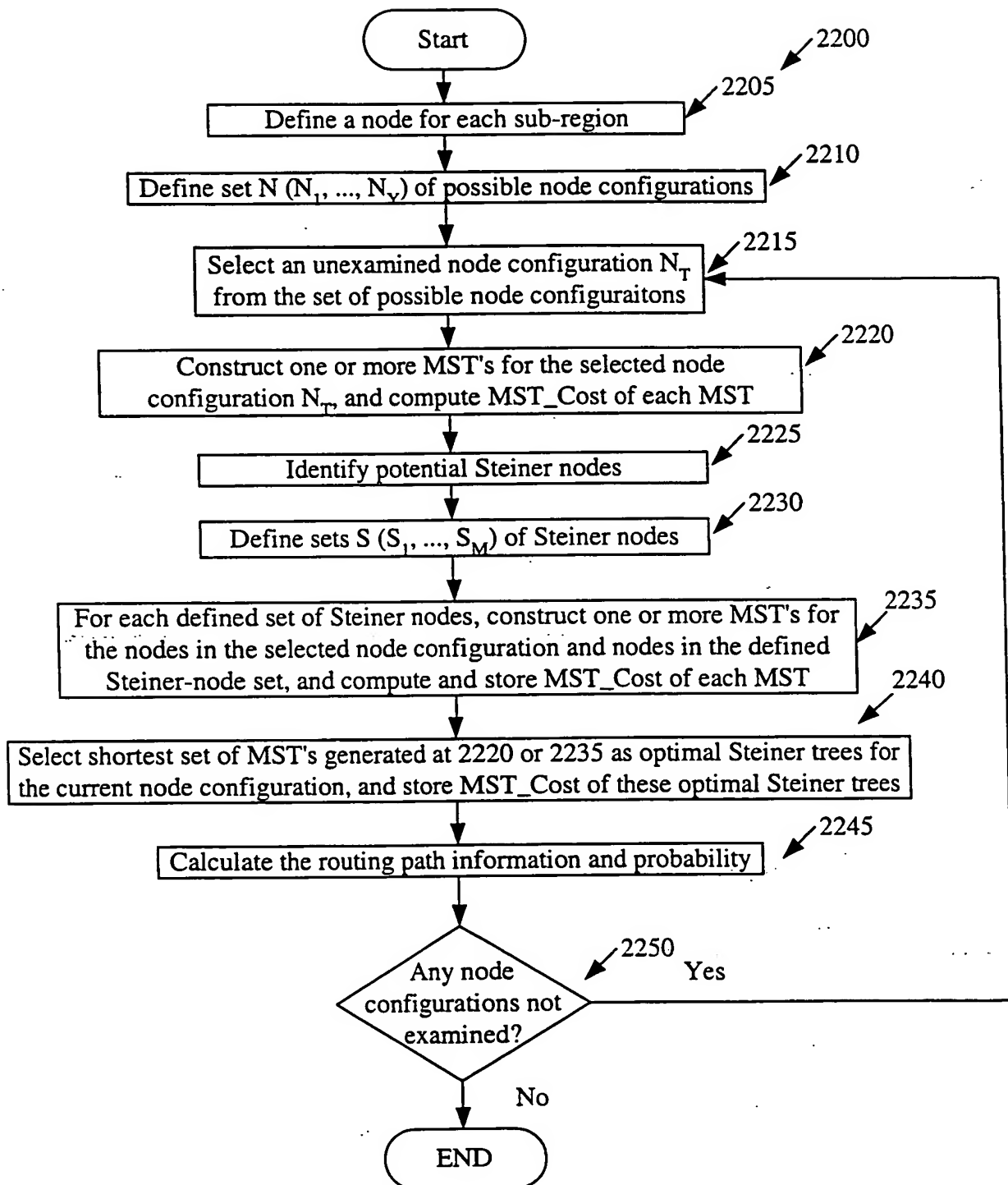


Figure 22

2025-08-08 10:00

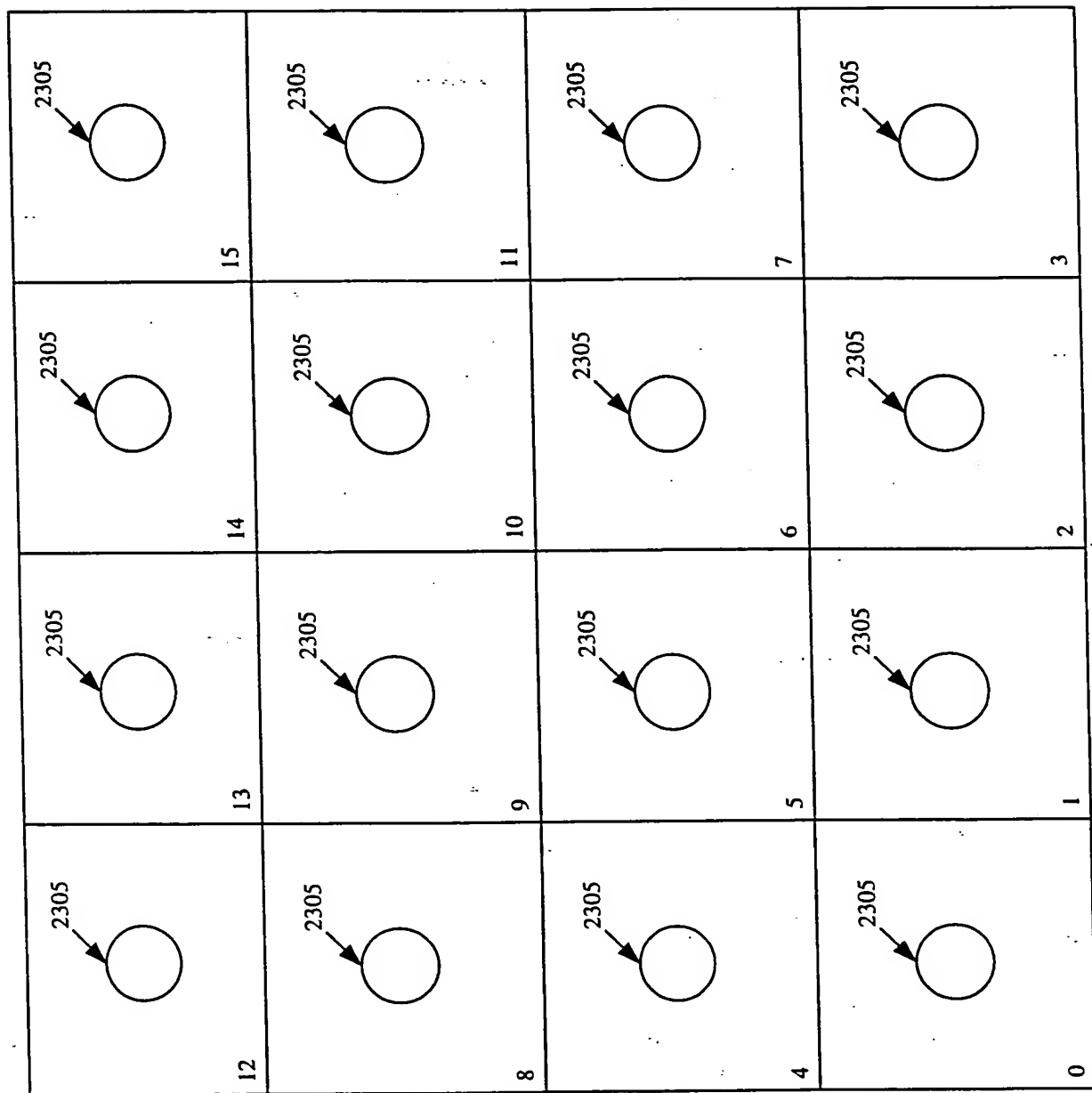


Figure 23

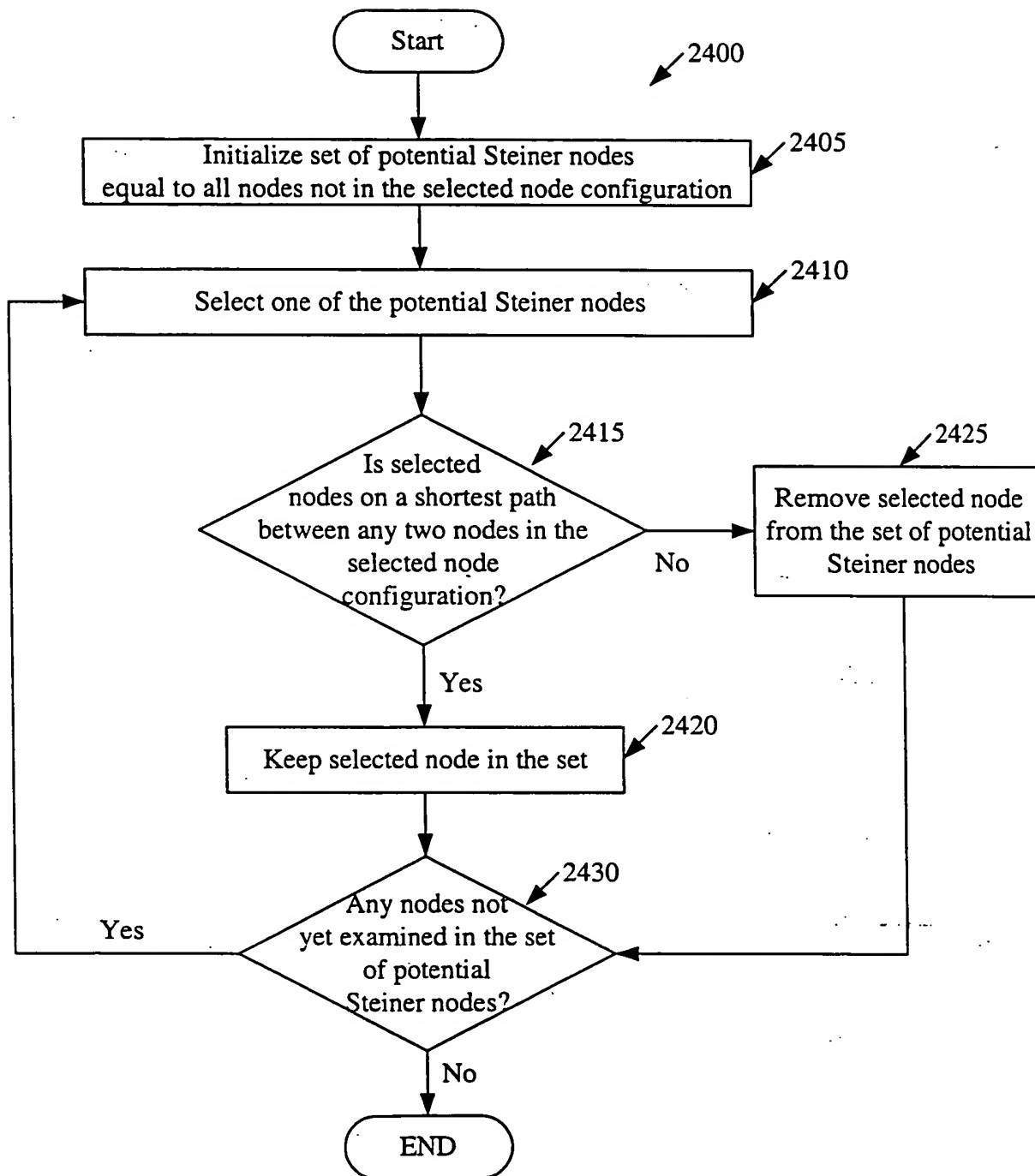


Figure 24

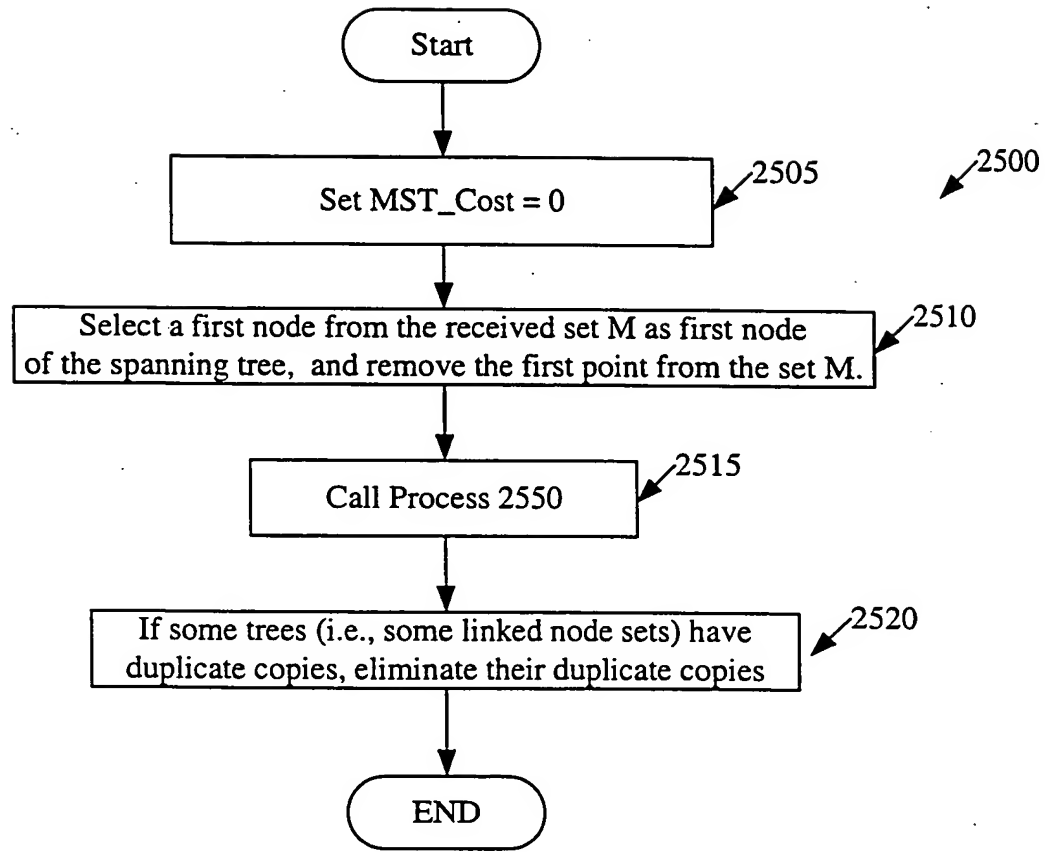


Figure 25A

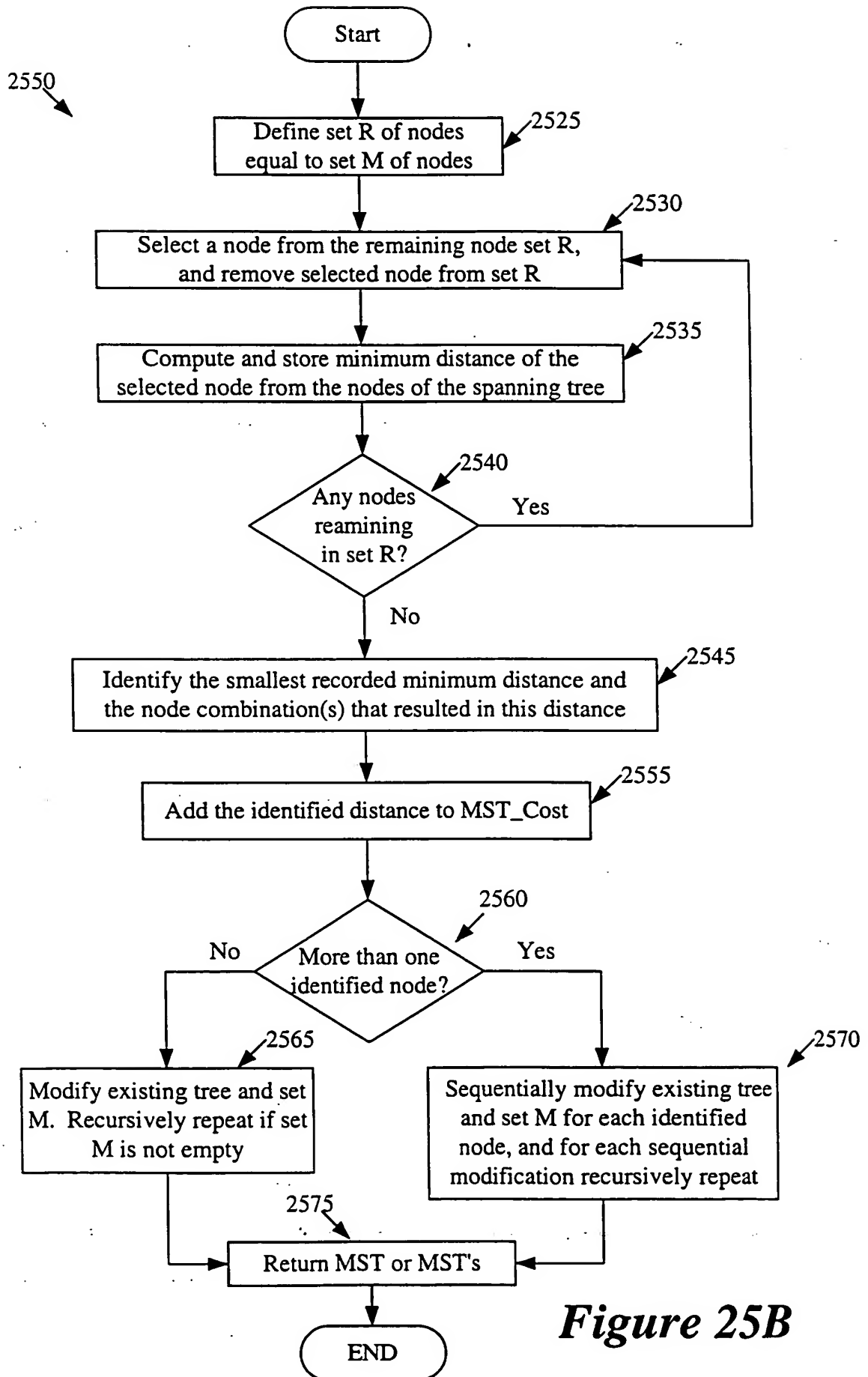


Figure 25B

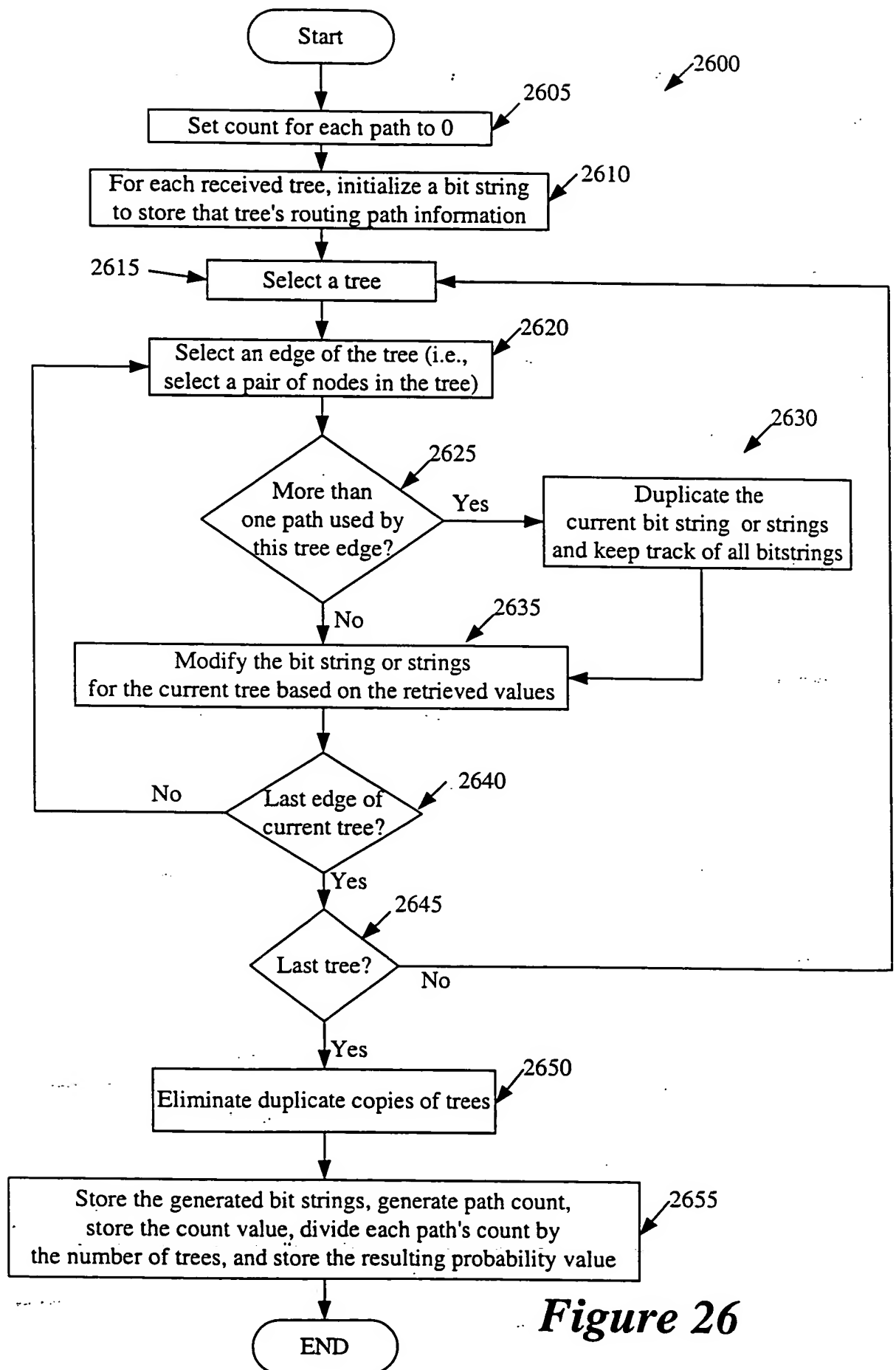


Figure 26

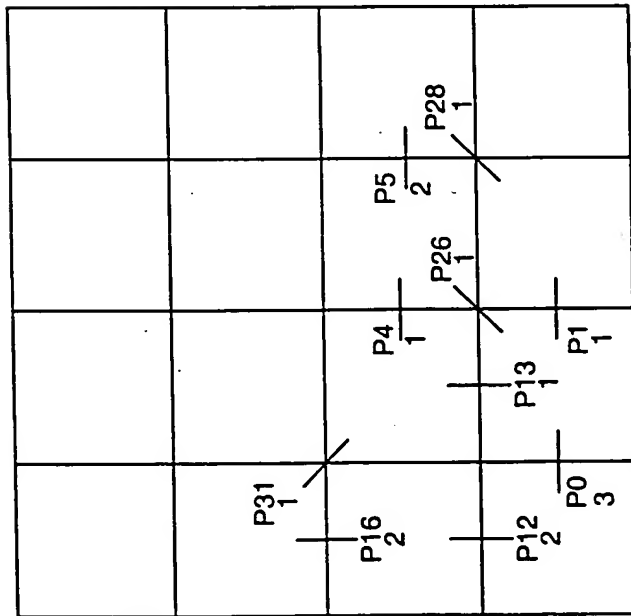


Figure 27

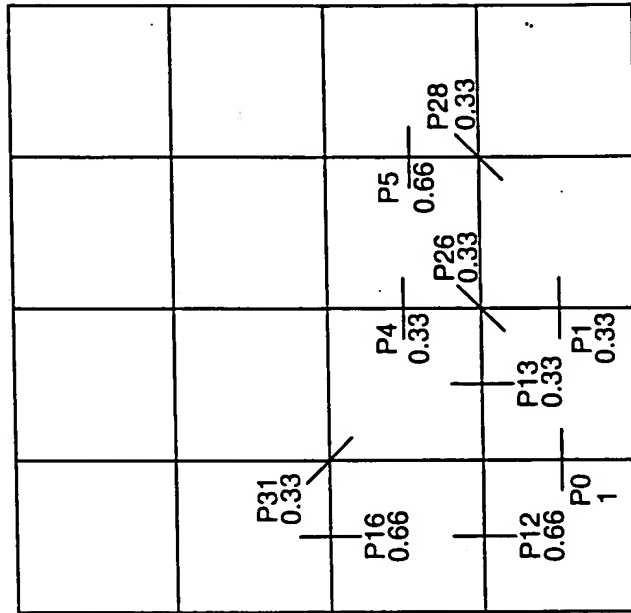


Figure 28

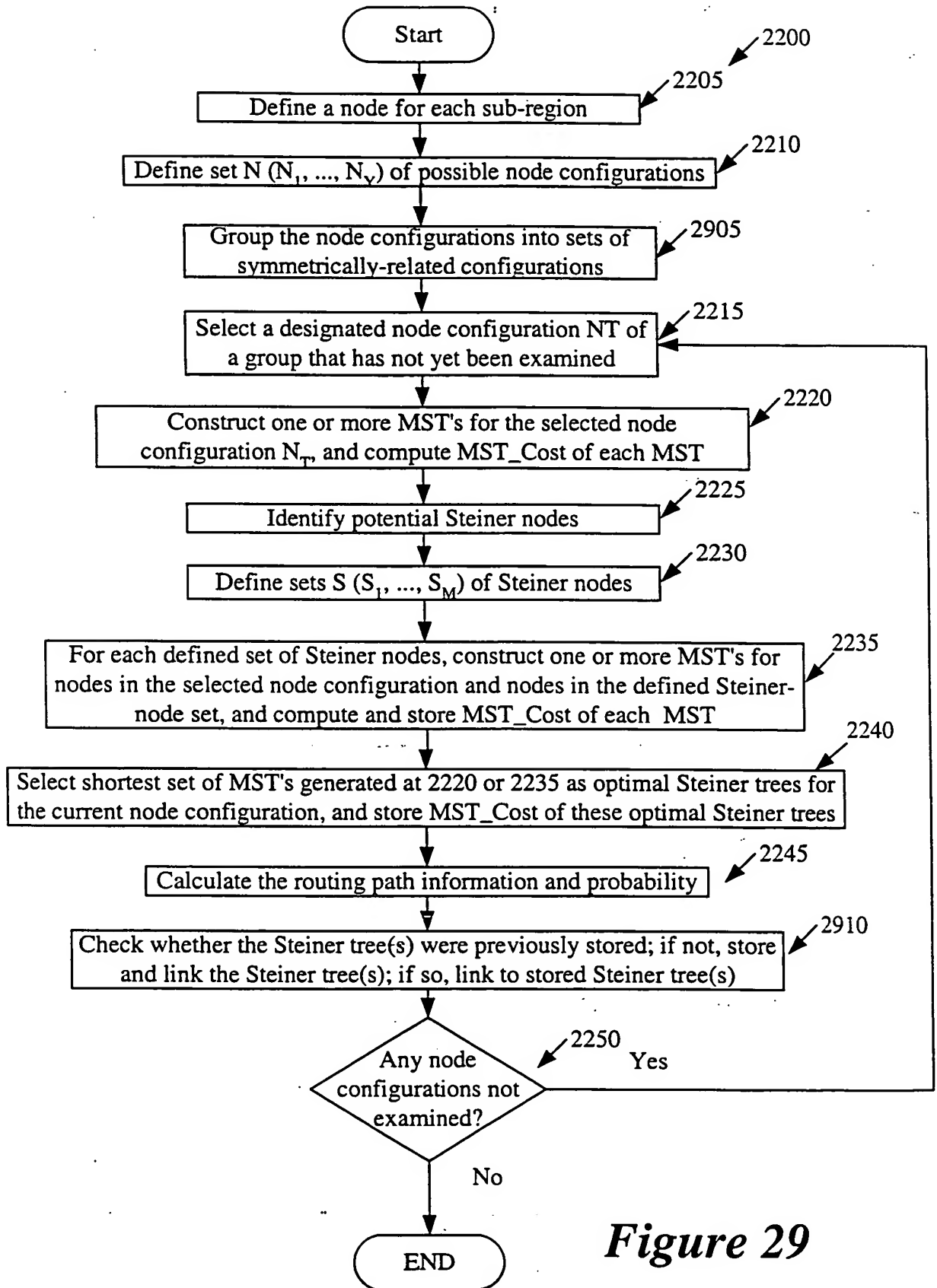


Figure 29

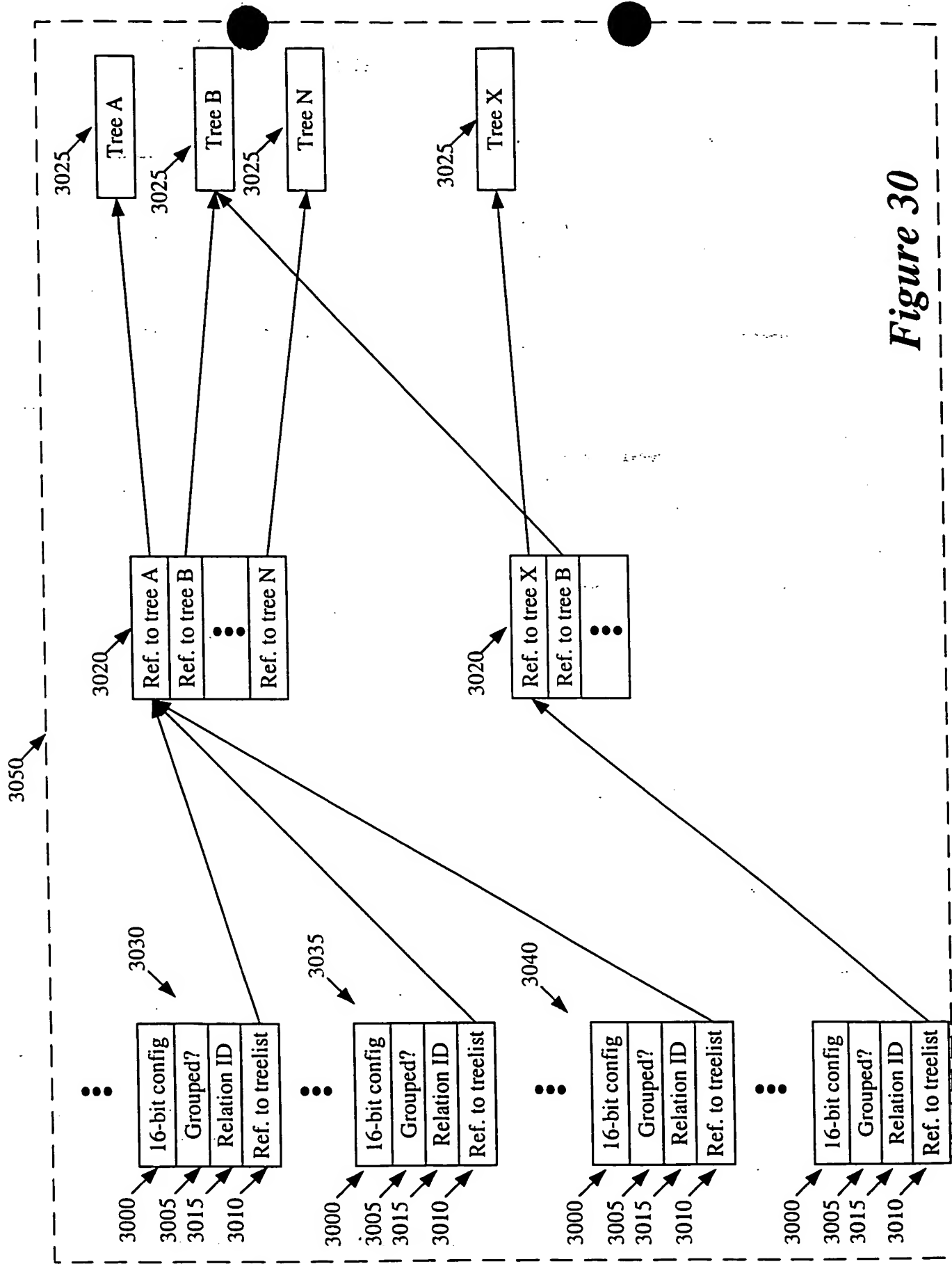


Figure 30

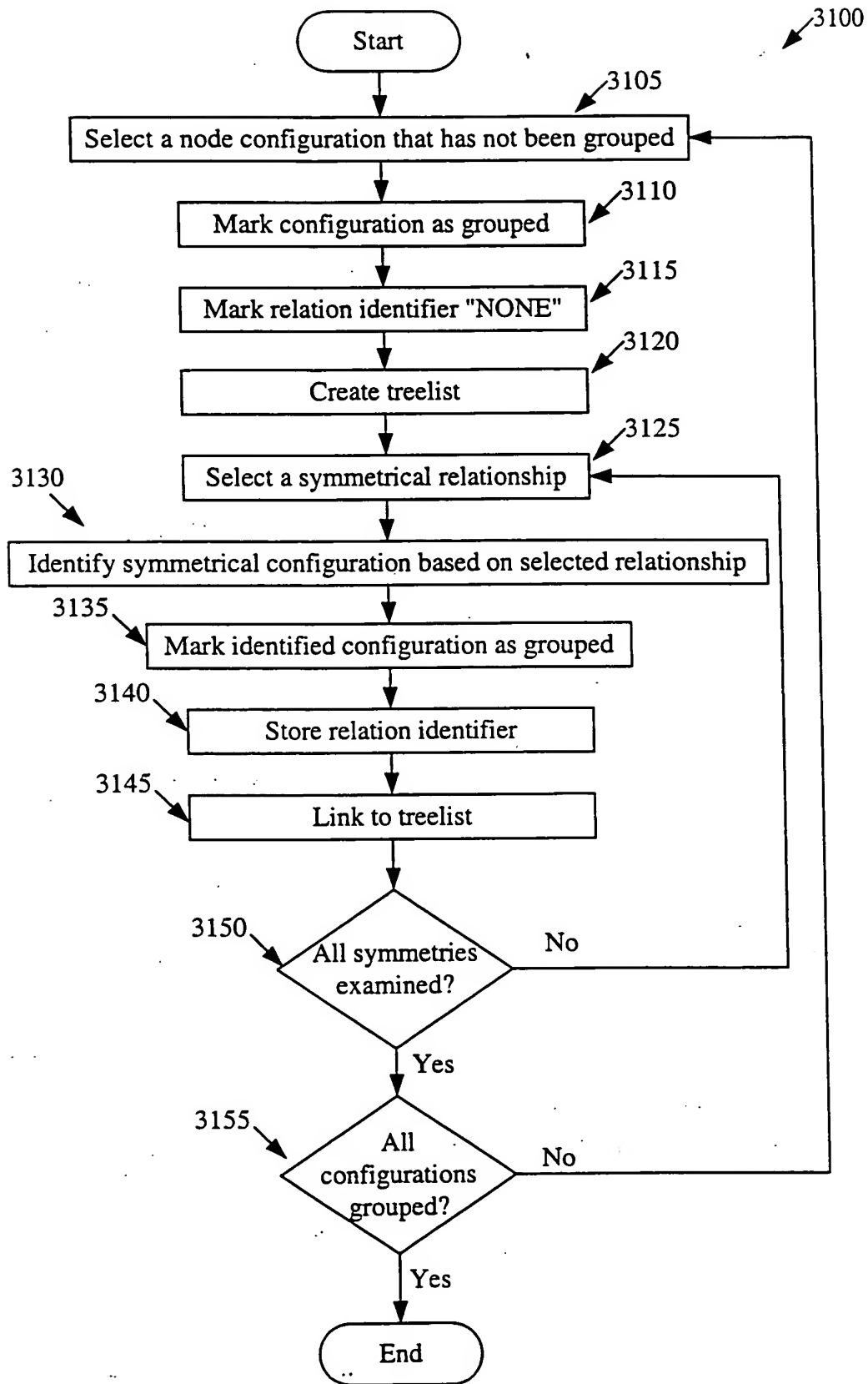


Figure 31

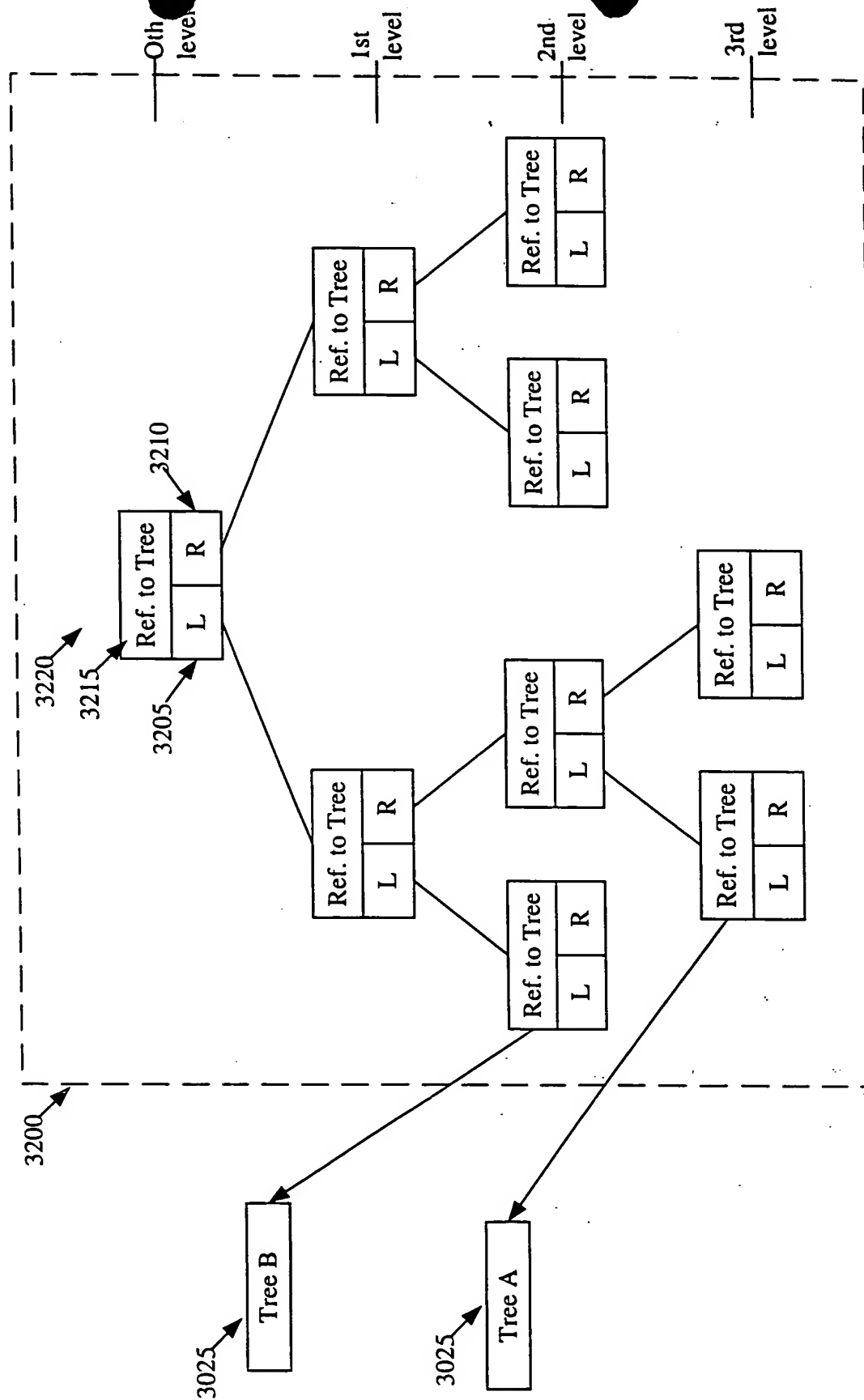


Figure 32

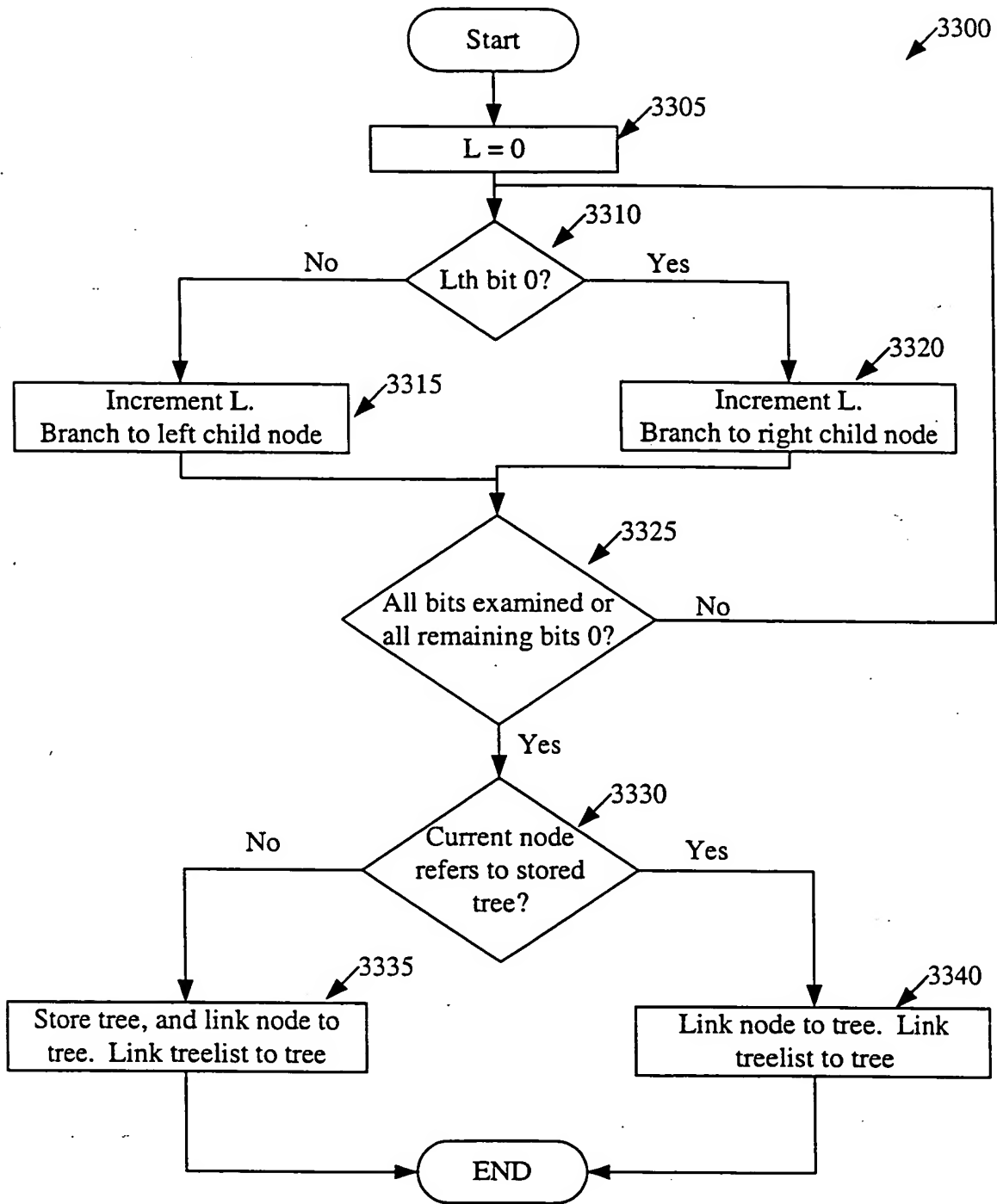


Figure 33

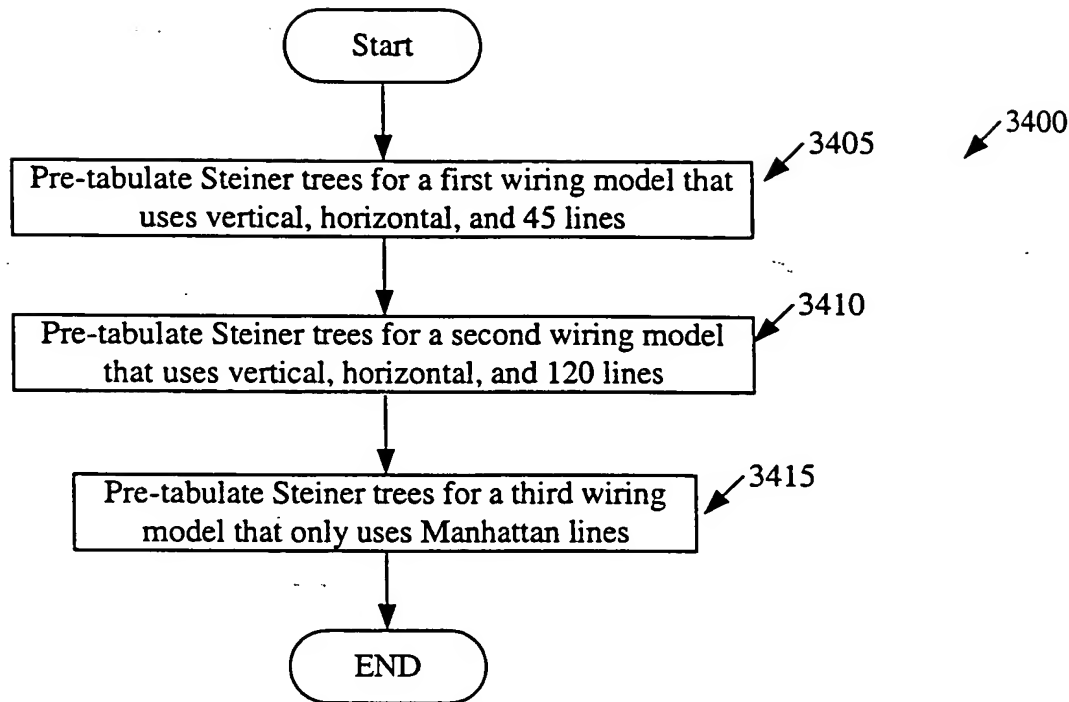


Figure 34

REF ID: A68400

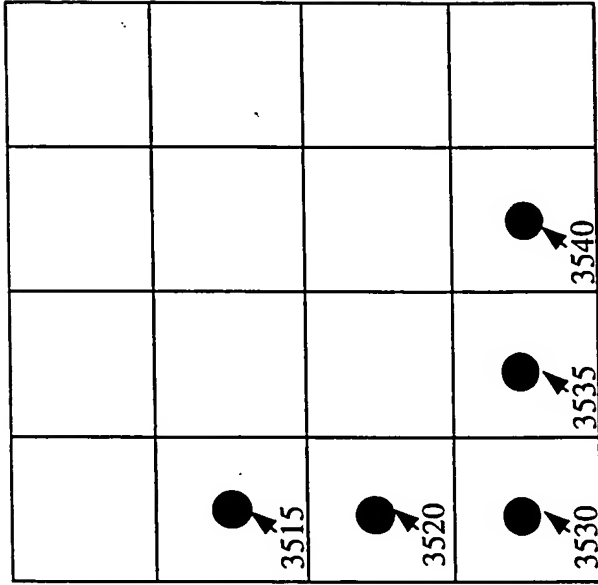


Figure 35A

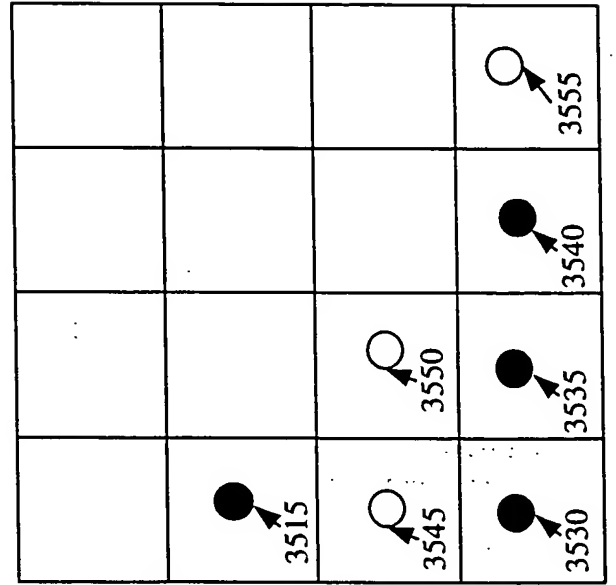


Figure 35B

2050011302

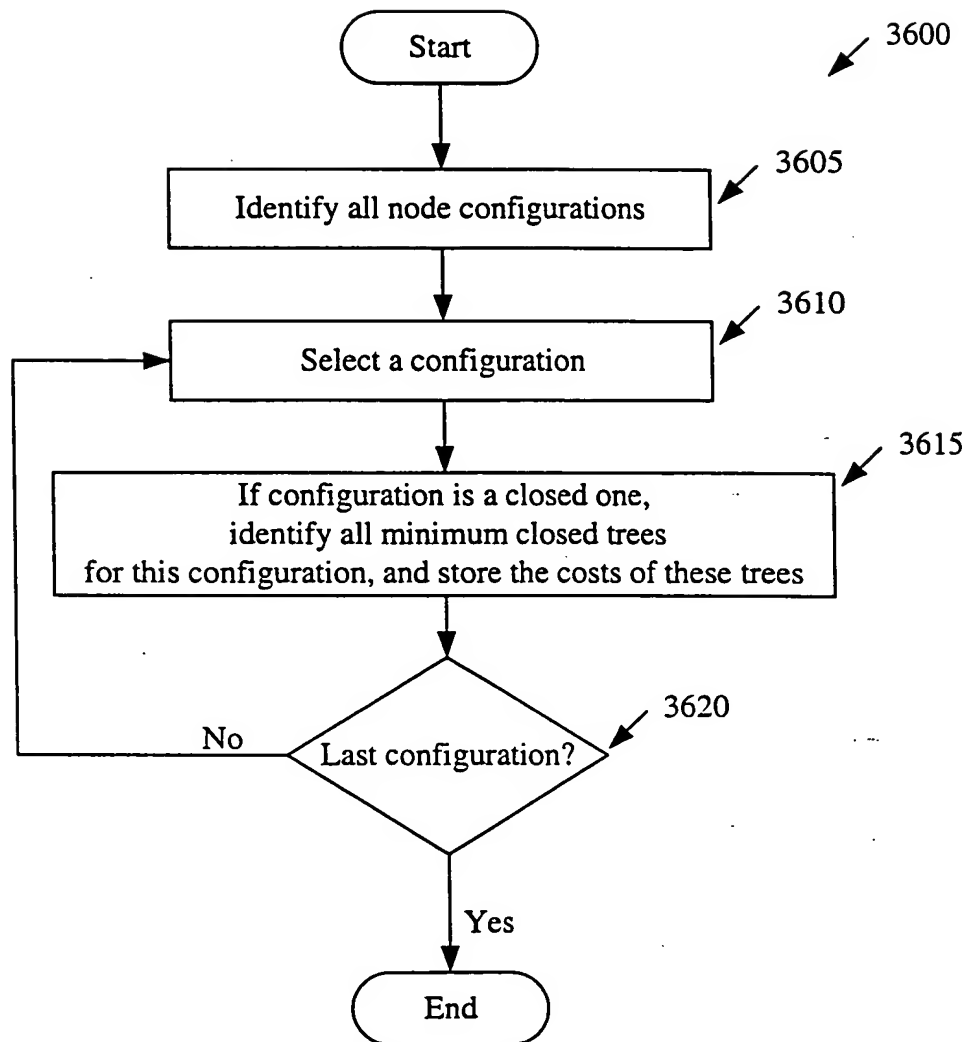


Figure 36

```

graph TD
    Start([Start]) --> 3705[Identify candidate sets of connection nodes]
    3705 --> 3710[Select a candidate set of connection nodes]
    3710 --> 3715{Does the combined node configuration have a MCT?}
    3715 -- Yes --> 3720[Select one of the MCT's]
    3715 -- No --> 3735{Last tree?}
    3720 --> 3725[Identify all nodes on the MCT with a degree of 1]
    3725 --> 3730{Are all identified nodes part of the current node configuration?}
    3730 -- Yes --> 3740[Add combined configuration as related closed configuration]
    3730 -- No --> 3735
    3740 --> 3745{Last candidate?}
    3745 -- Yes --> END([END])
    3745 -- No --> 3710
    3735 -- Yes --> 3745
    3735 -- No --> 3710

```

Figure 37

Figure 37

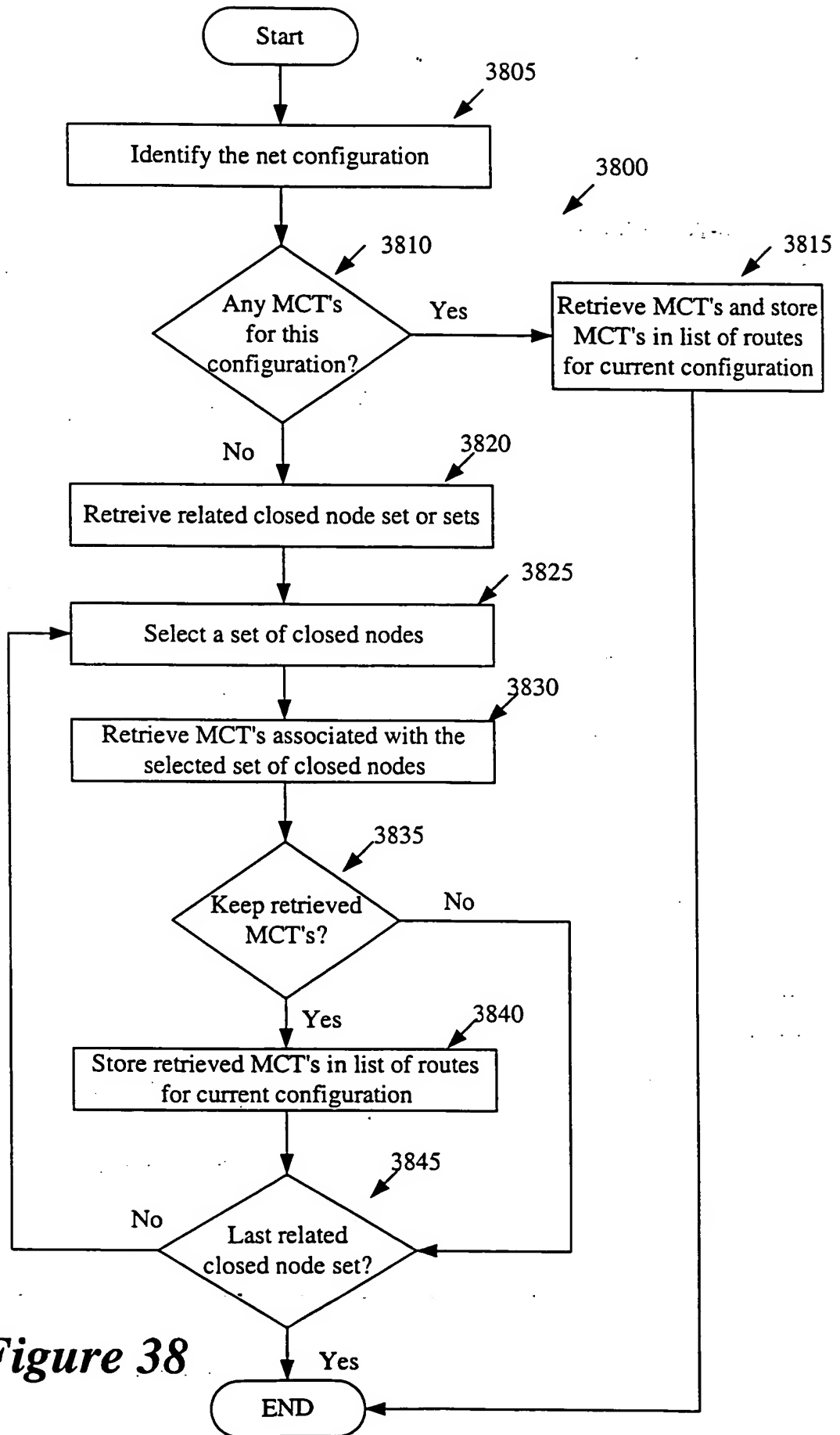


Figure 38

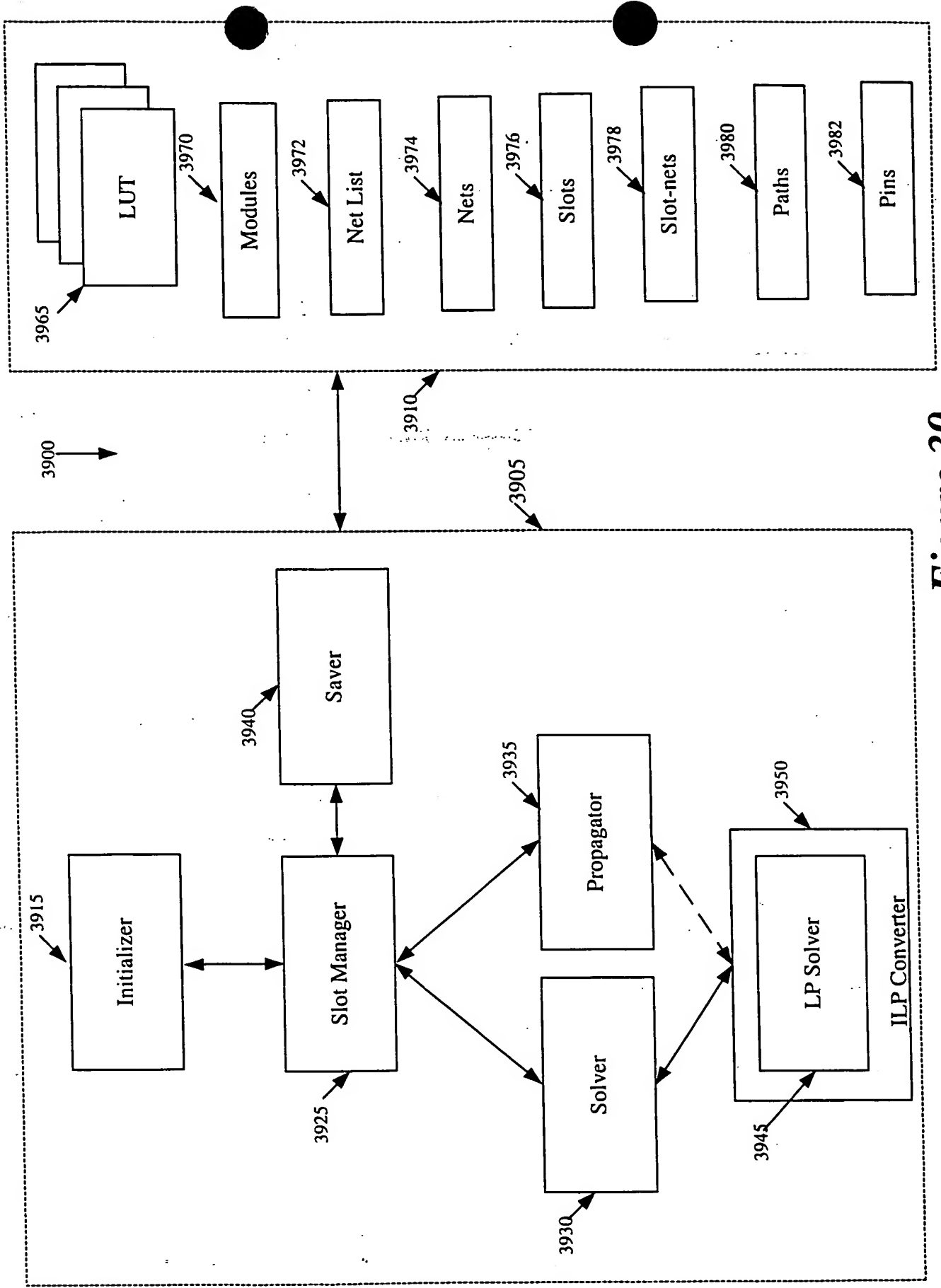


Figure 39

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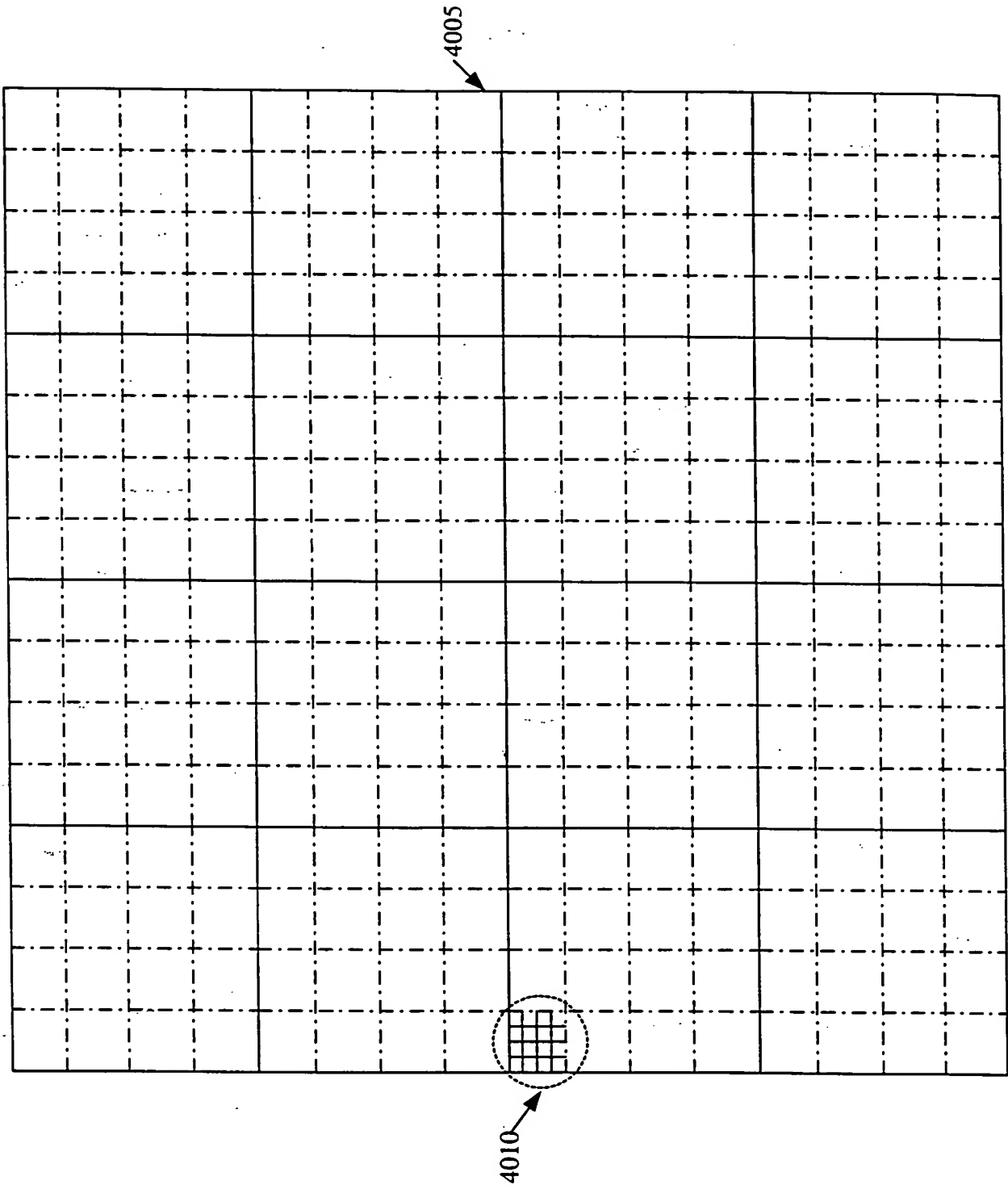


Figure 40

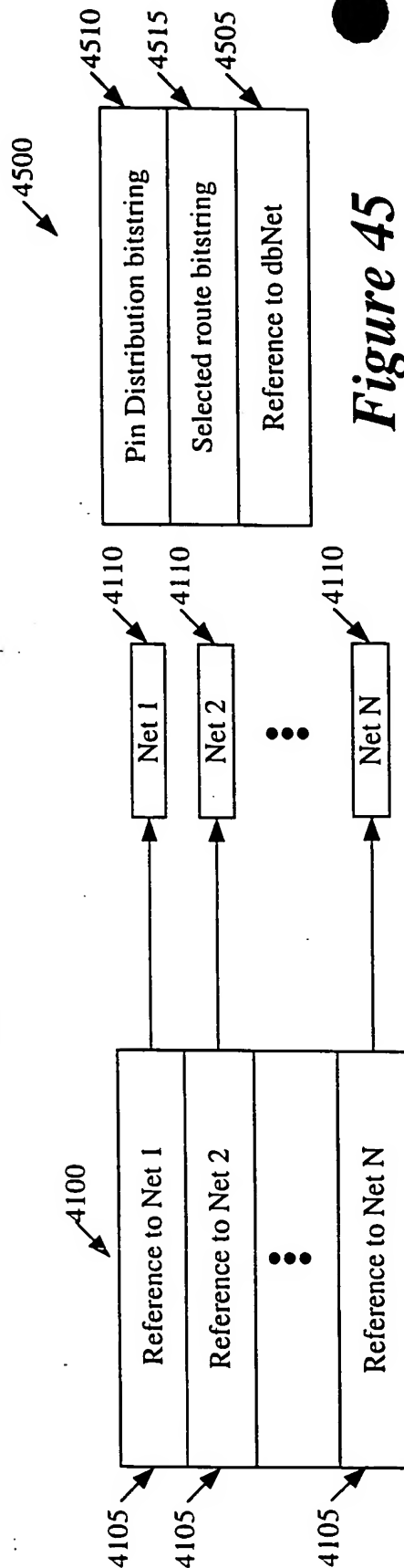


Figure 45

Figure 41

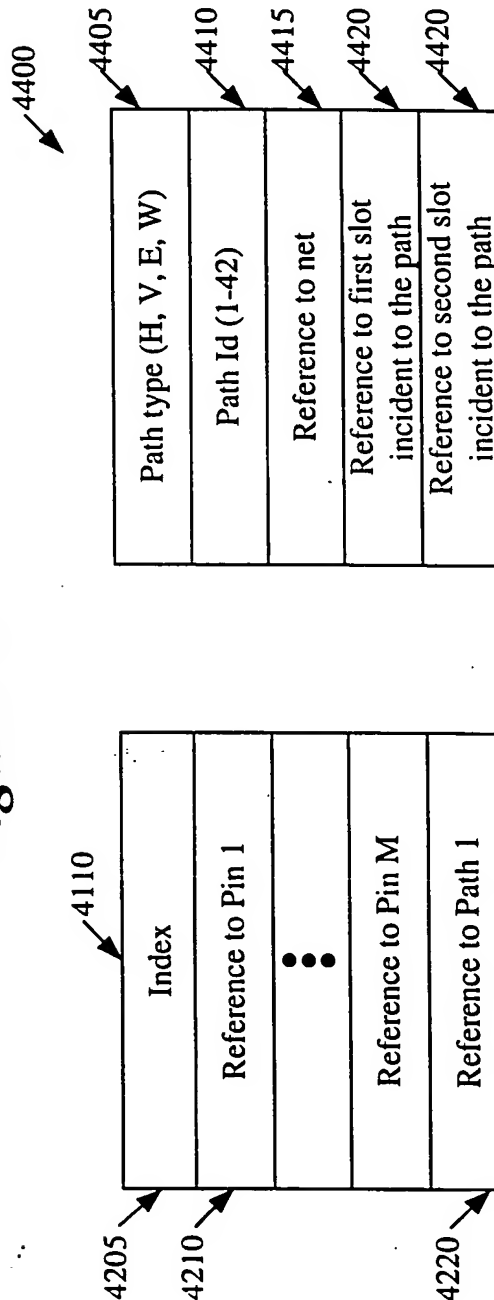


Figure 44

Figure 80

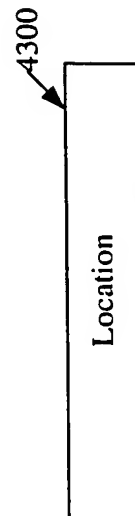
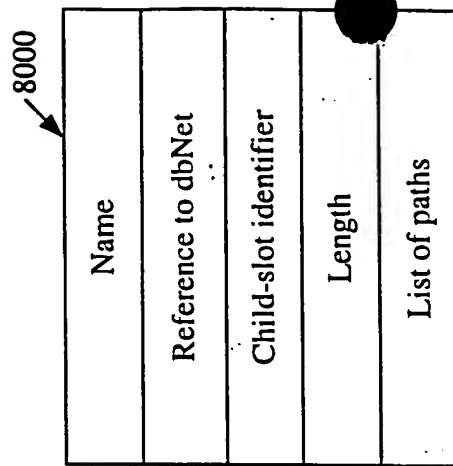


Figure 43



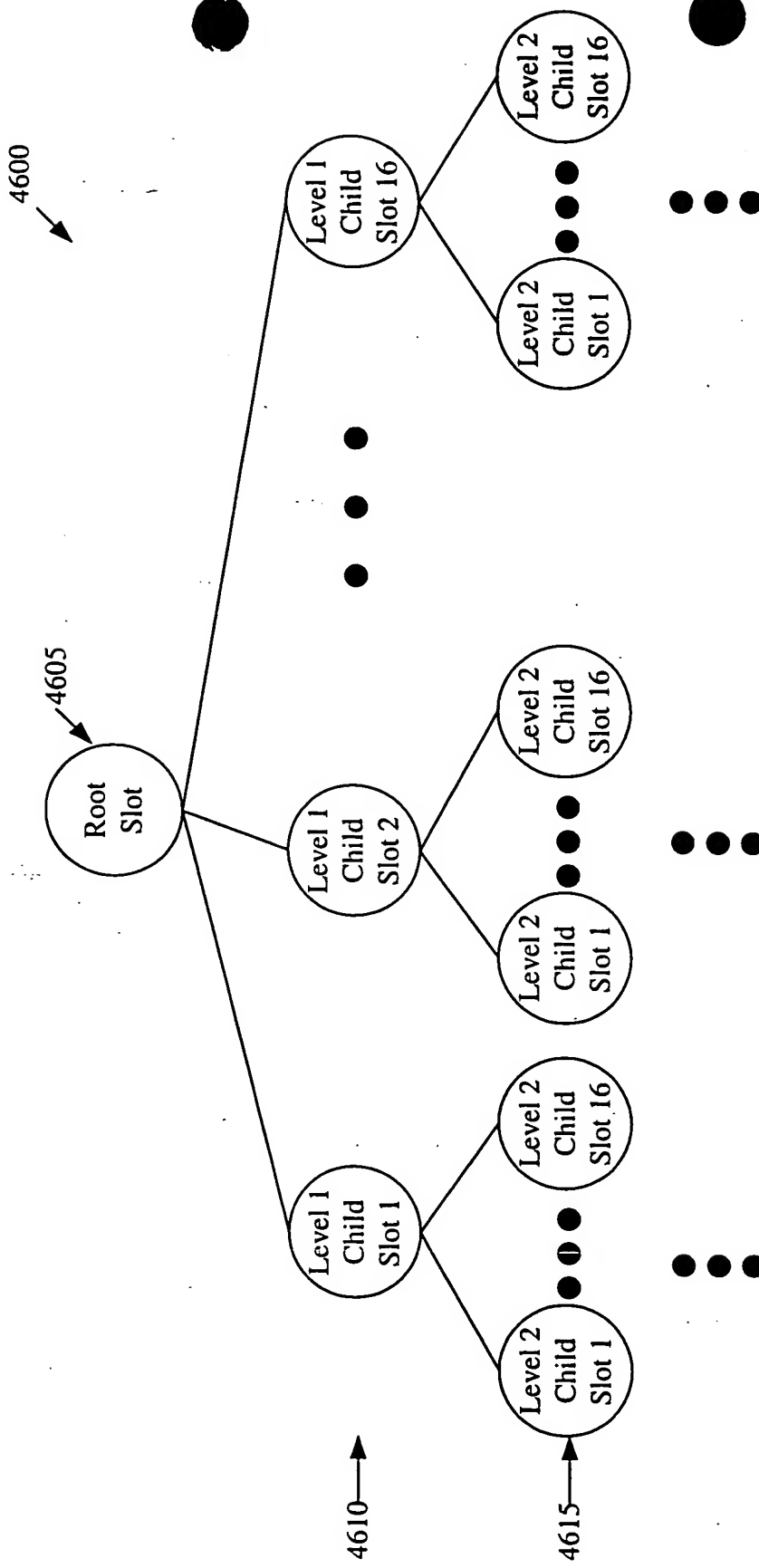


Figure 46

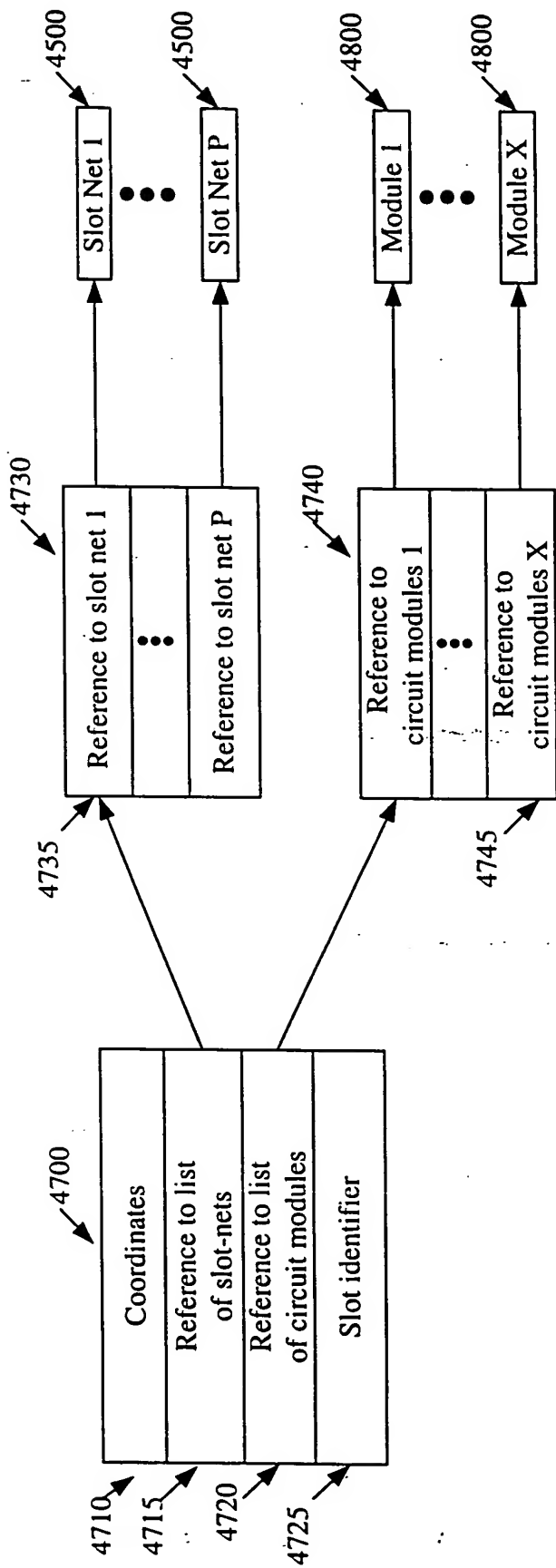


Figure 47

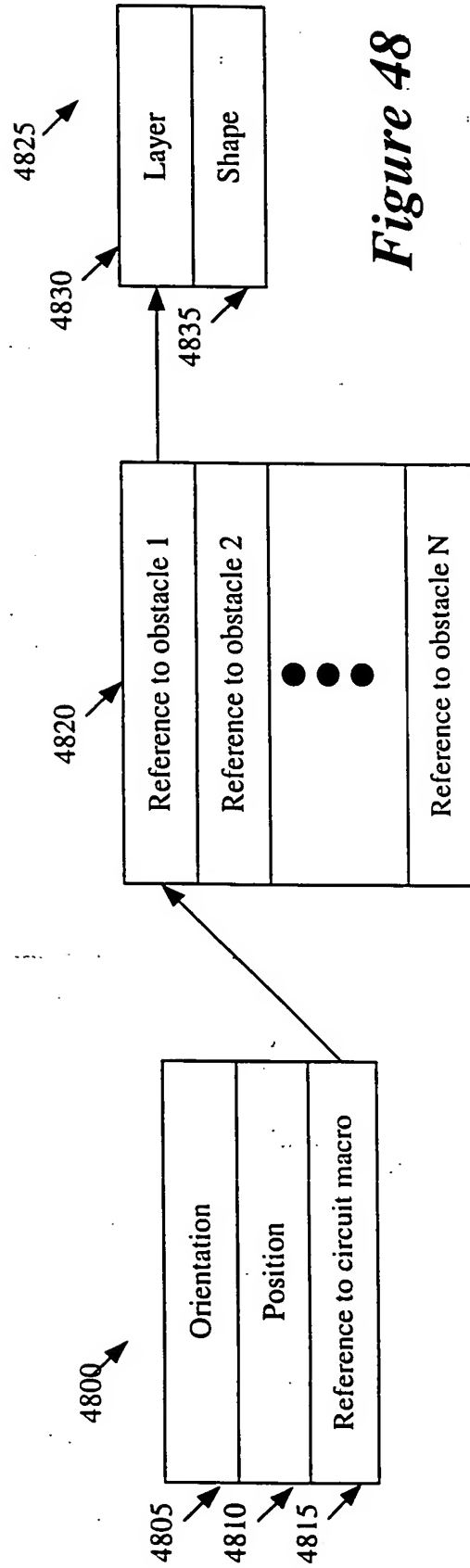


Figure 48

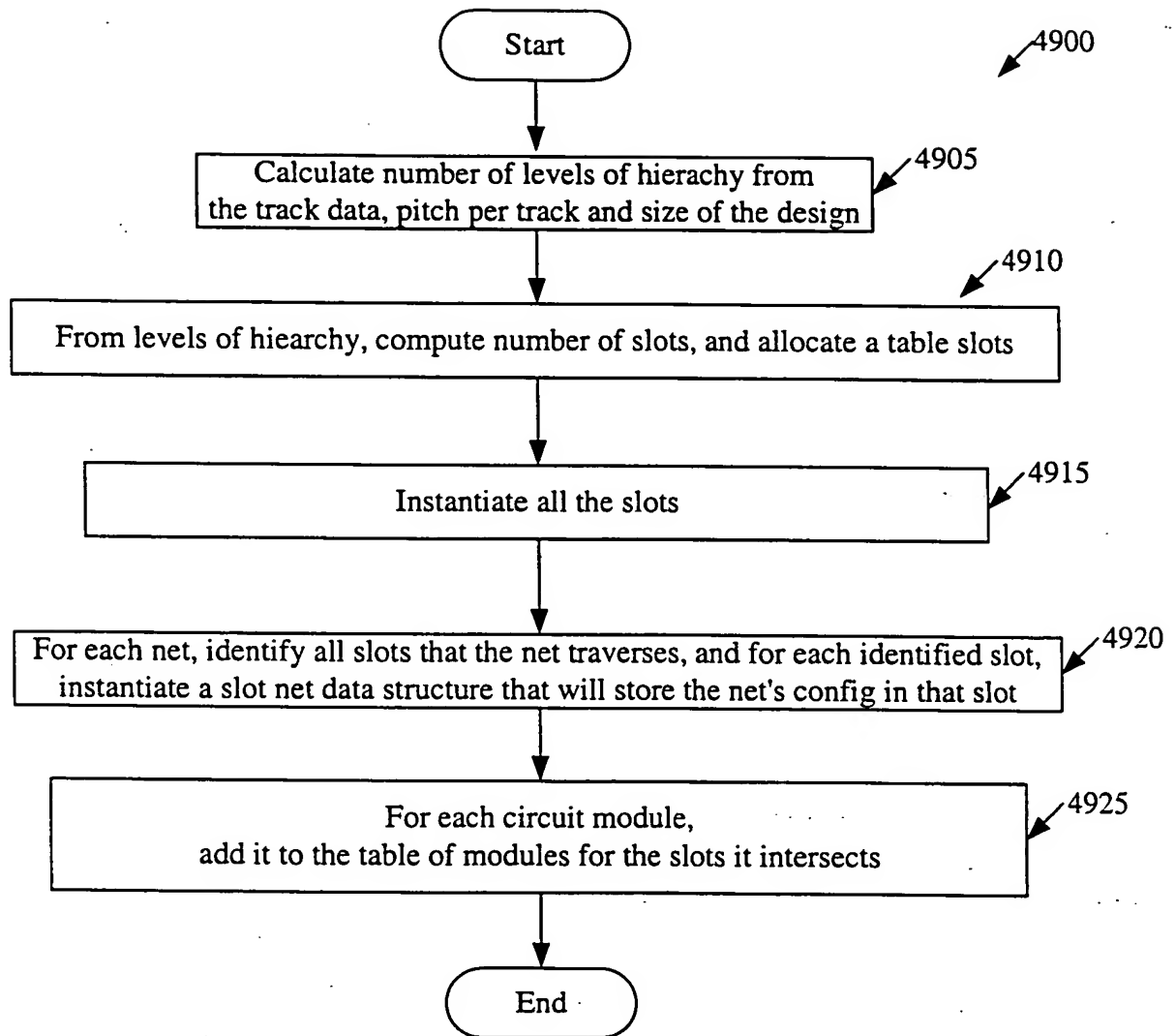


Figure 49

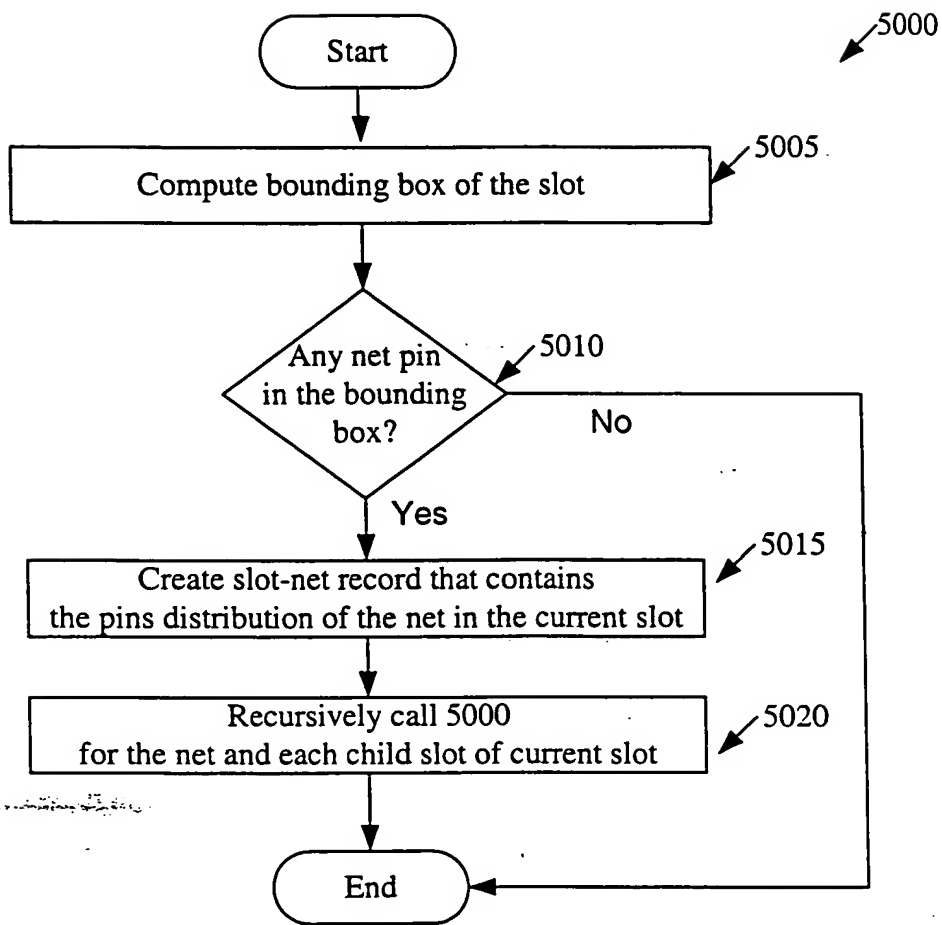


Figure 50

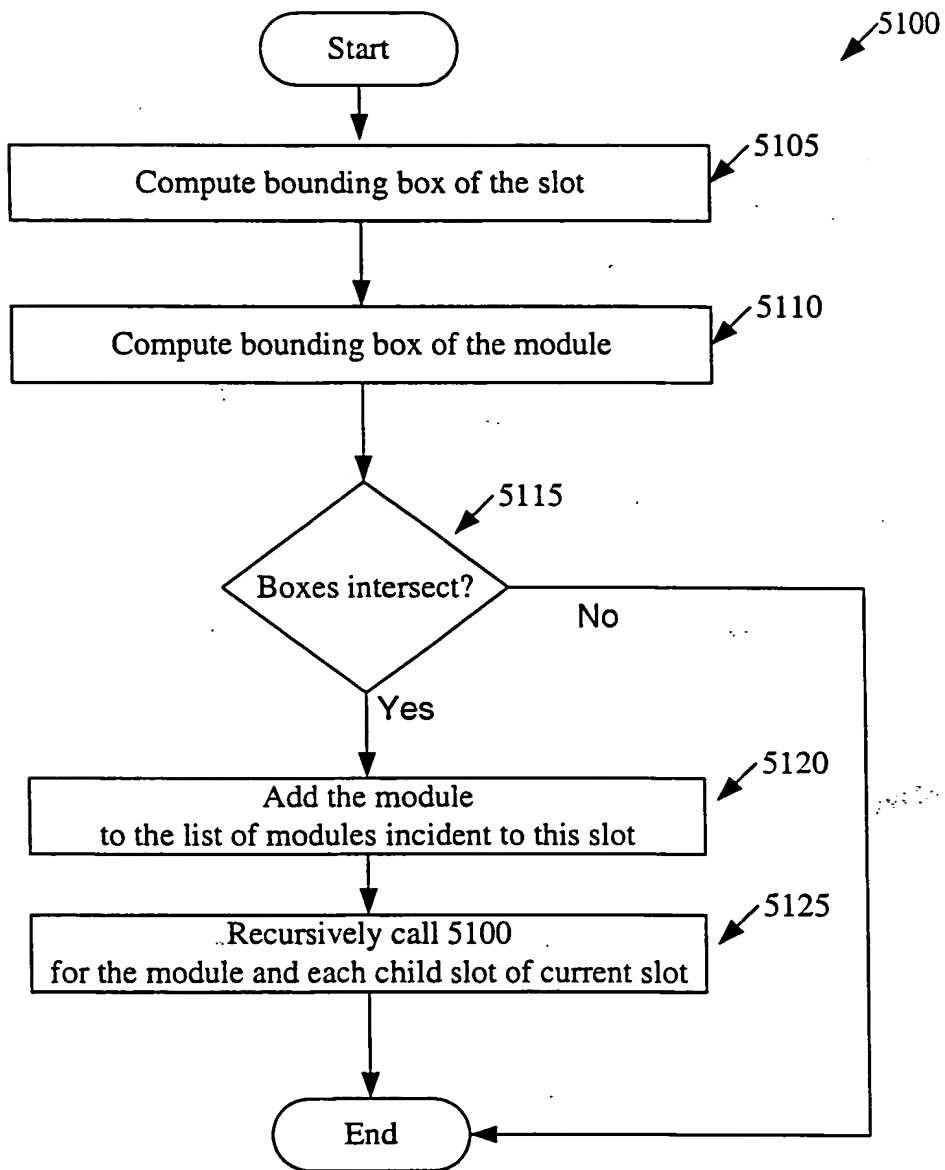


Figure 51

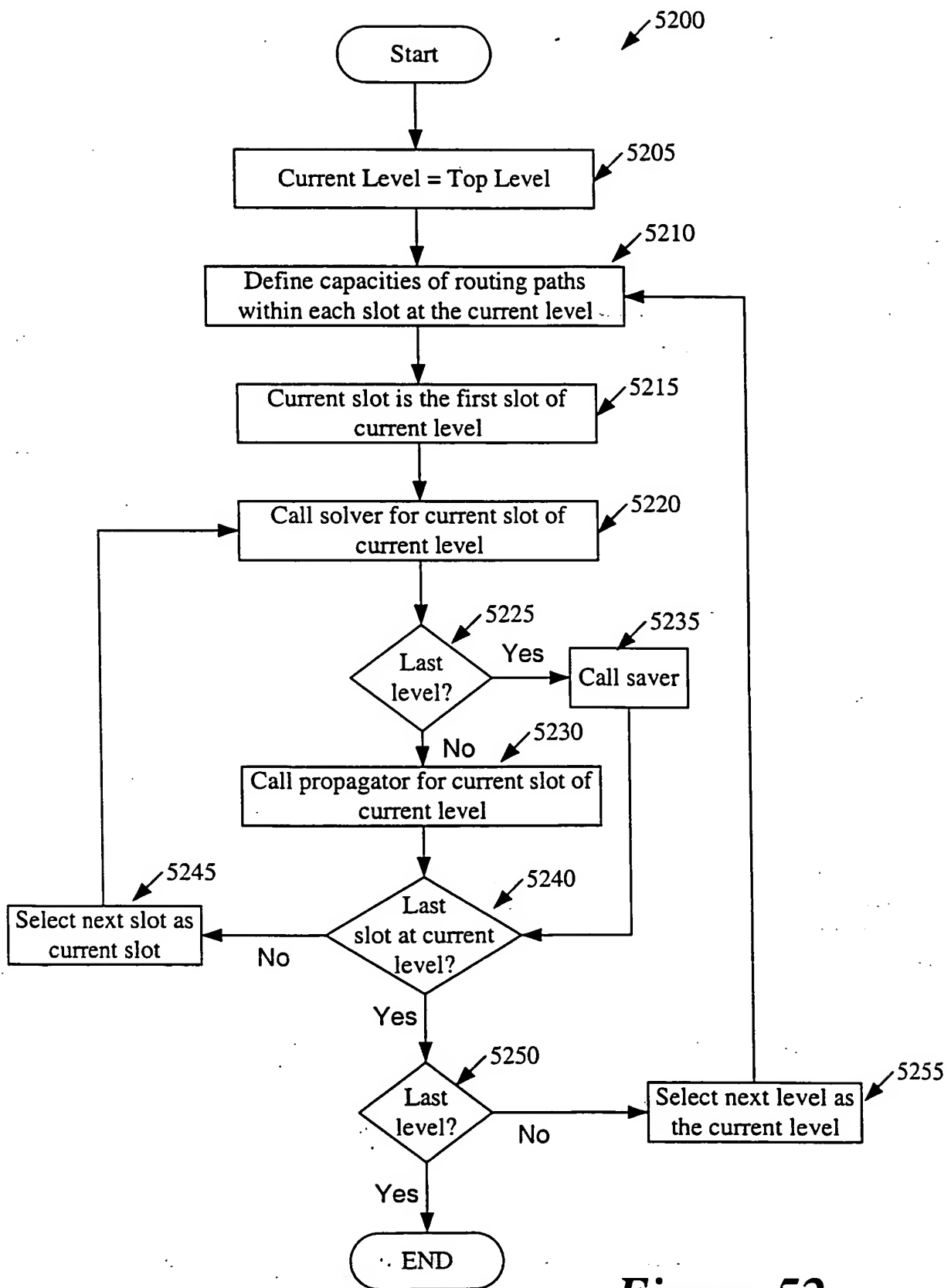


Figure 52

```
graph TD; Start([Start]) --> 5305[Predict congestion of resources for each path in the routing grid]; 5305 --> 5310[Identify routes for each net in the current slot]; 5310 --> 5315[Assign wirelength cost to each identified tree by factoring propagation]; 5315 --> 5320[Formulate LP problem]; 5320 --> 5325[Solve LP problem]; 5325 --> 5330[Convert LP solutions to ILP solutions]; 5330 --> 5335[Save results in the slot-net data structures]; 5335 --> END([END]);
```

5300

Start

5305 Predict congestion of resources for each path in the routing grid

5310 Identify routes for each net in the current slot

5315 Assign wirelength cost to each identified tree by factoring propagation

5320 Formulate LP problem

5325 Solve LP problem

5330 Convert LP solutions to ILP solutions

5335 Save results in the slot-net data structures

END

Figure 53

2025-08-08 10:00:00

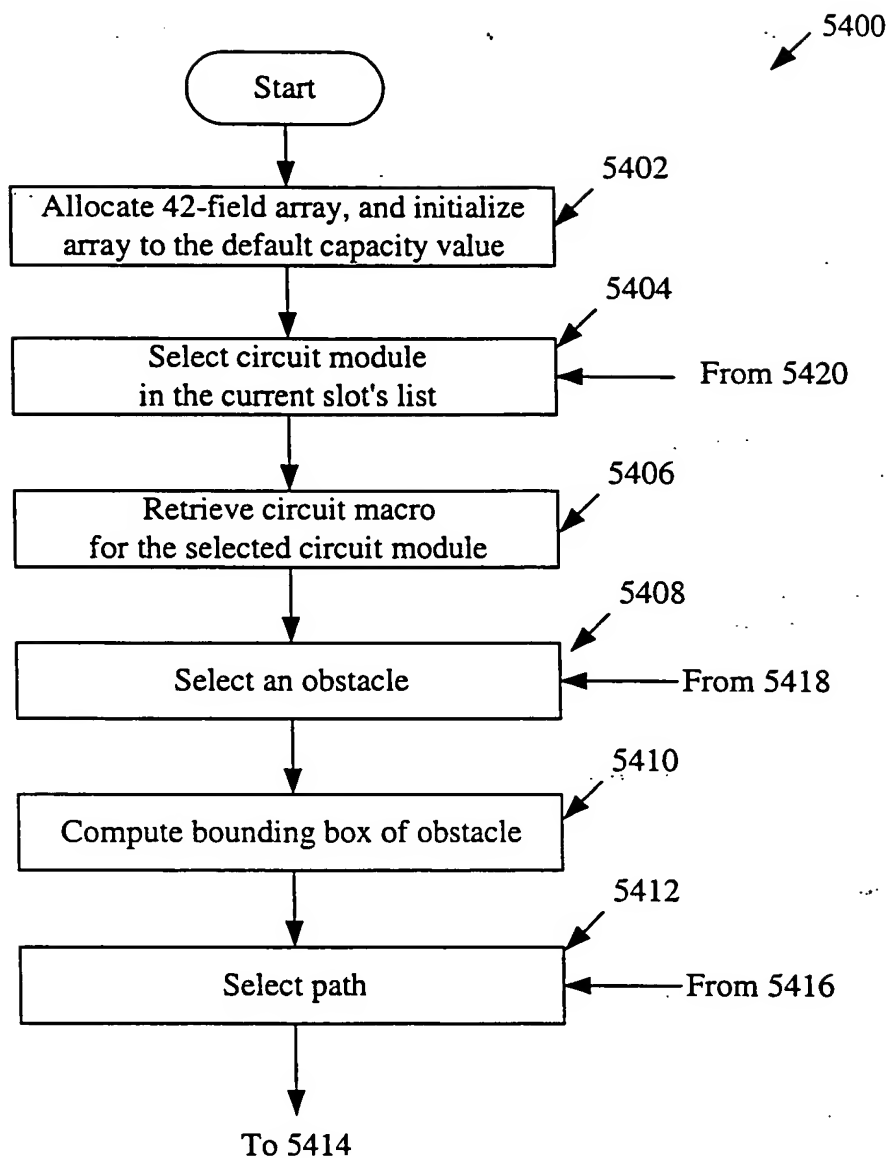


Figure 54A

Figure 54: Figure 54A
Figure 54B

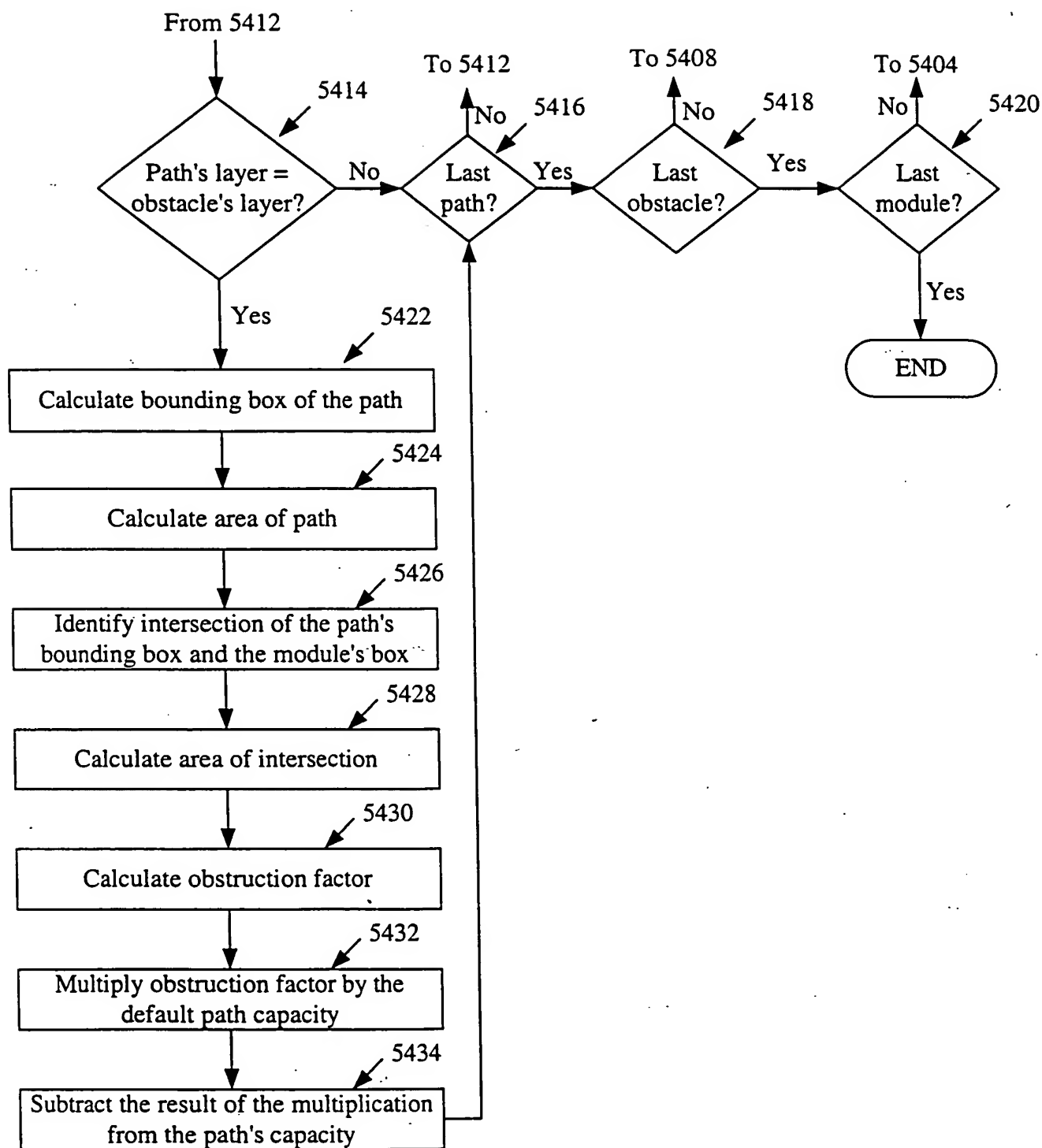


Figure 54B

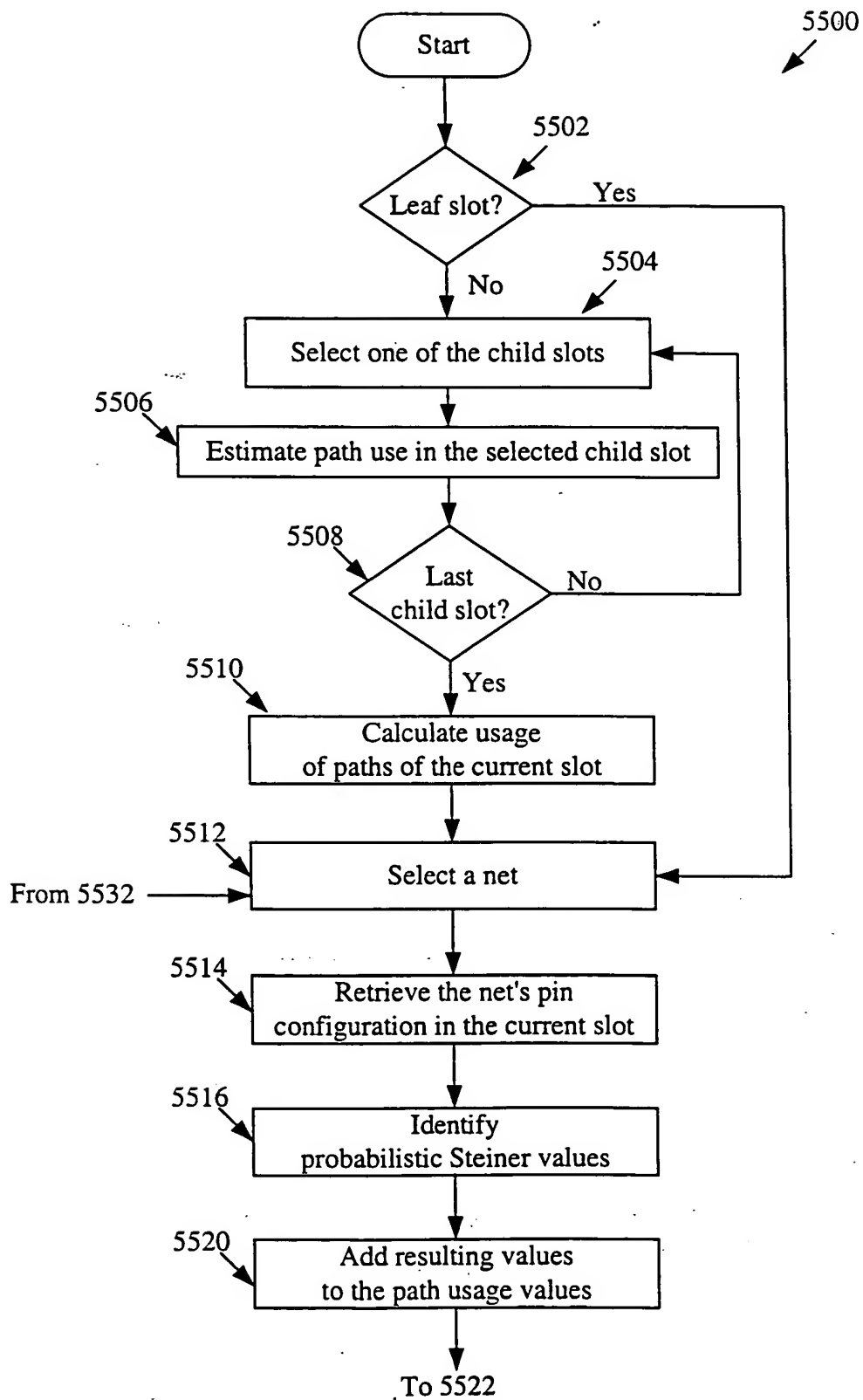


Figure 55A

Figure 55: Figure 55A
Figure 55B

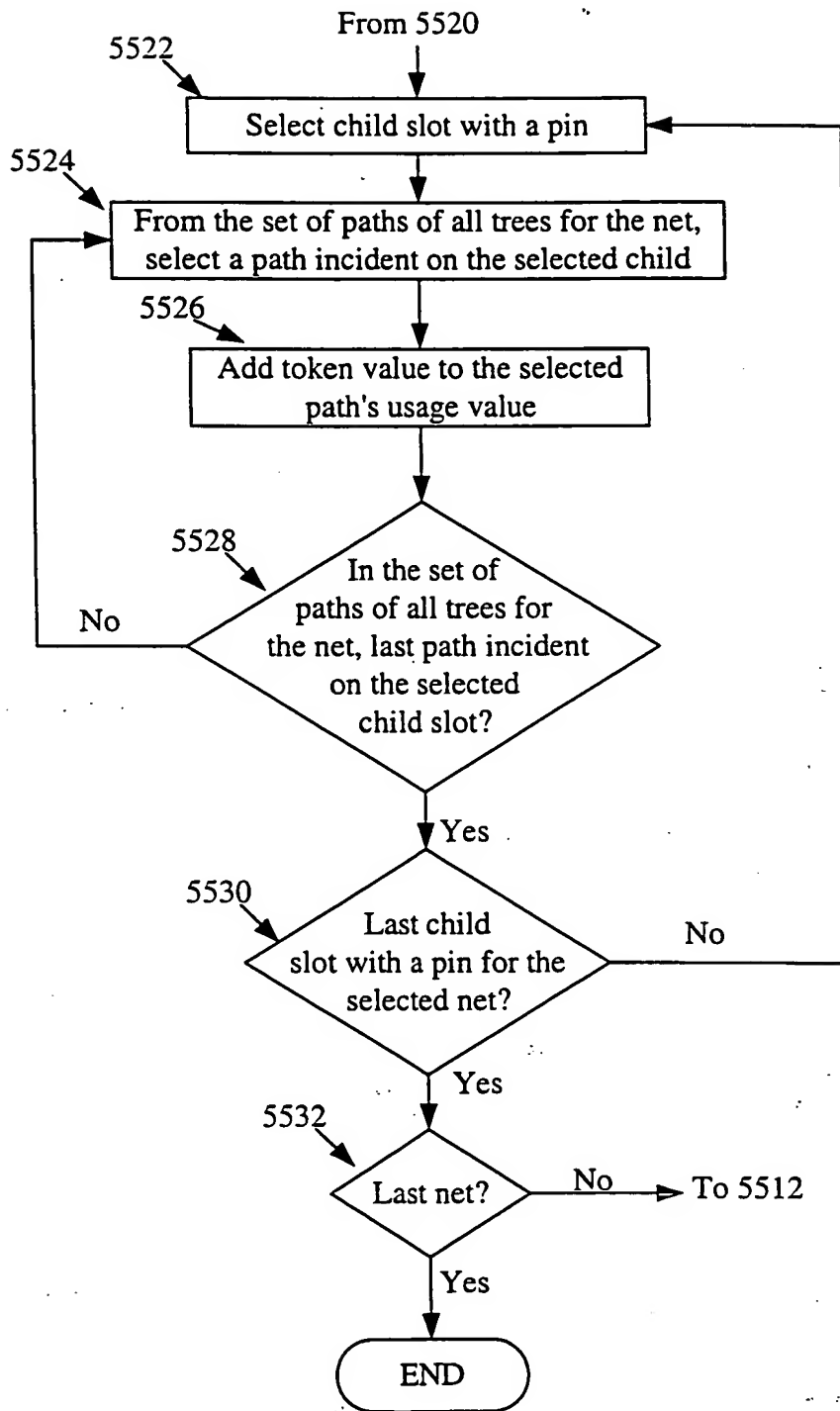


Figure 55B

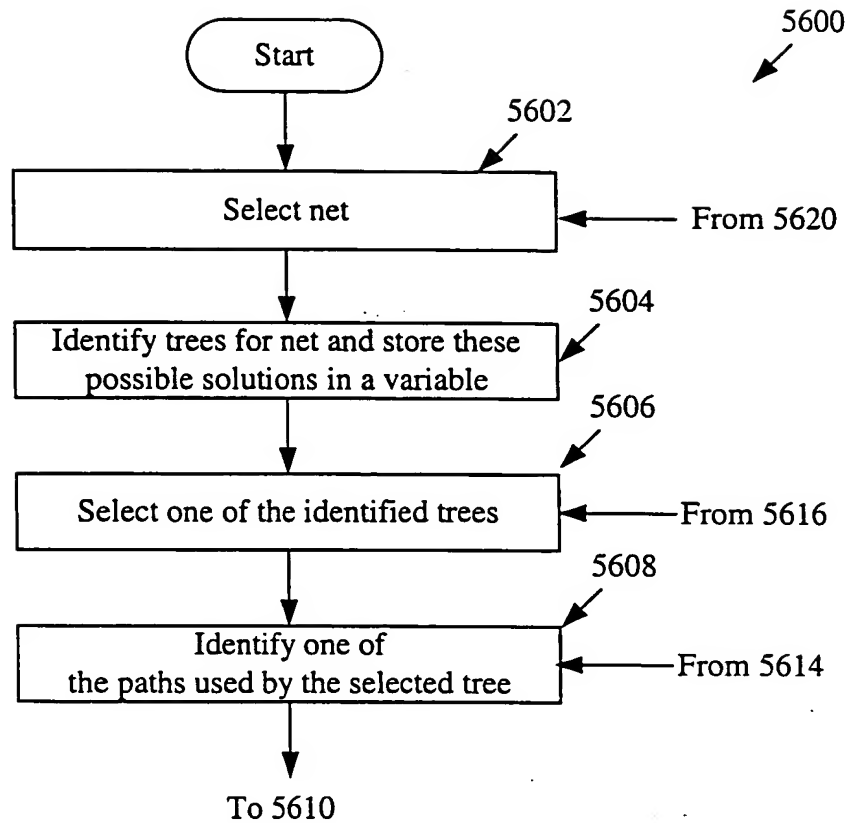


Figure 56A

Figure 56: Figure 56A
Figure 56B
Figure 56C
Figure 56D

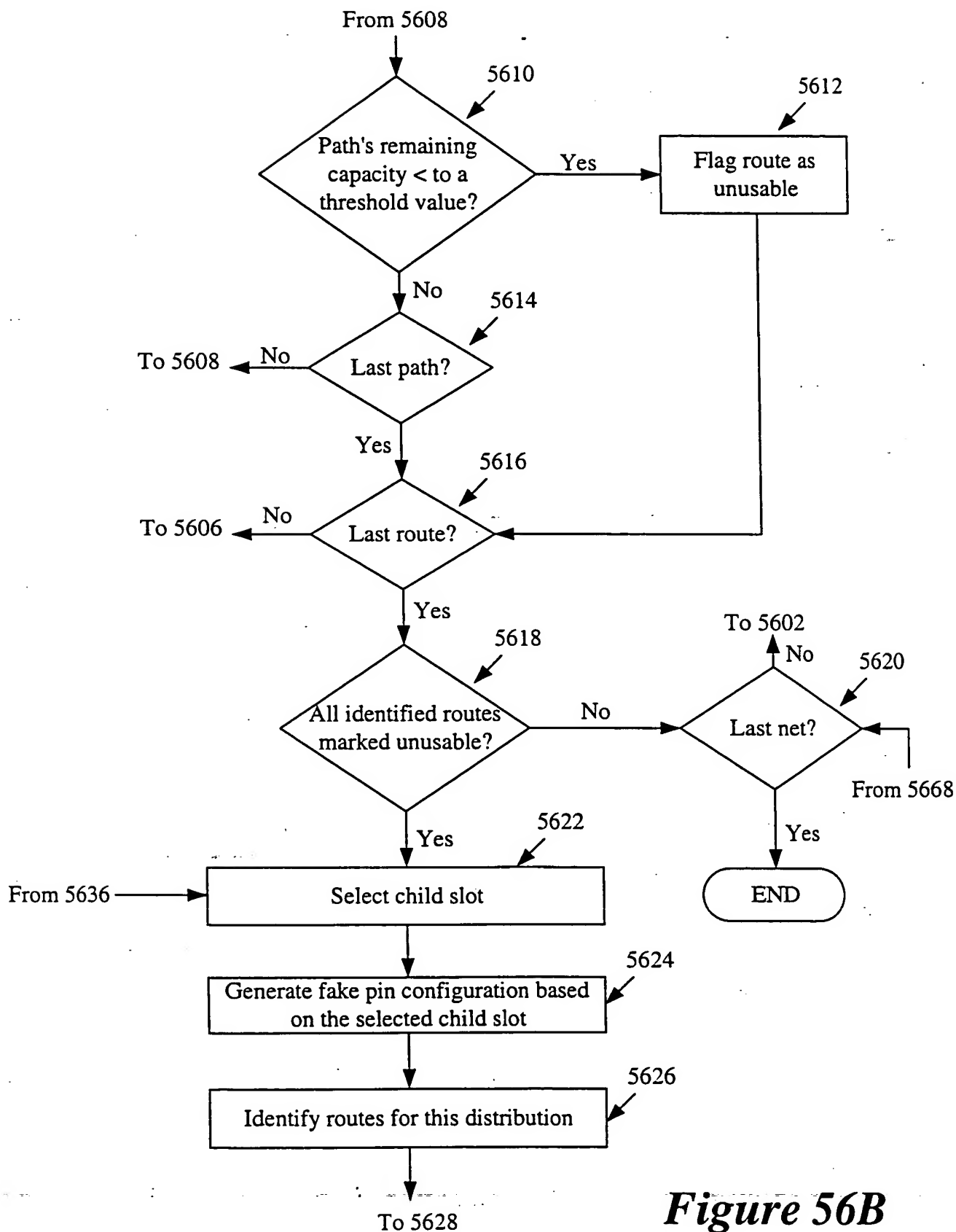


Figure 56B

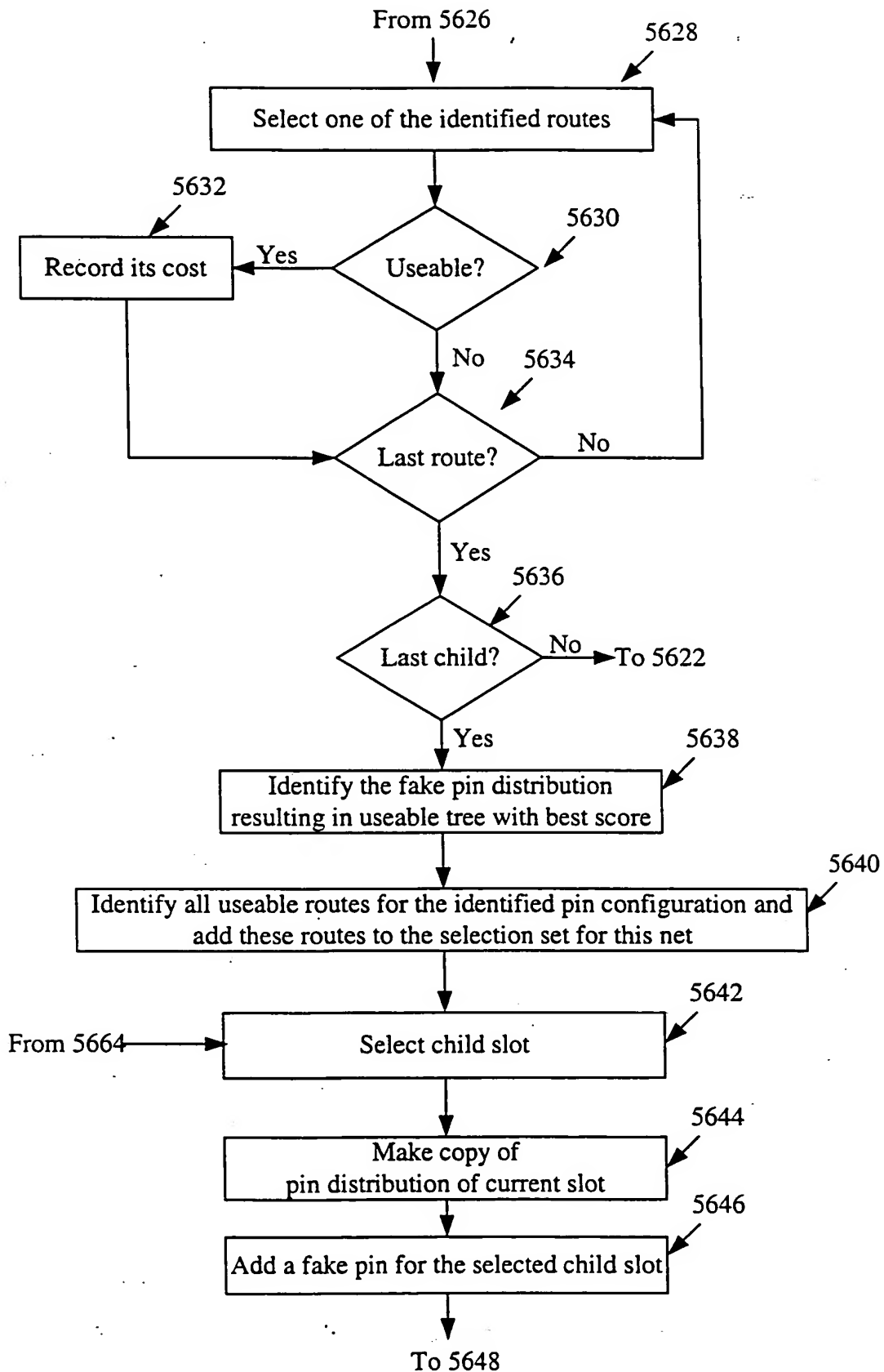


Figure 56C

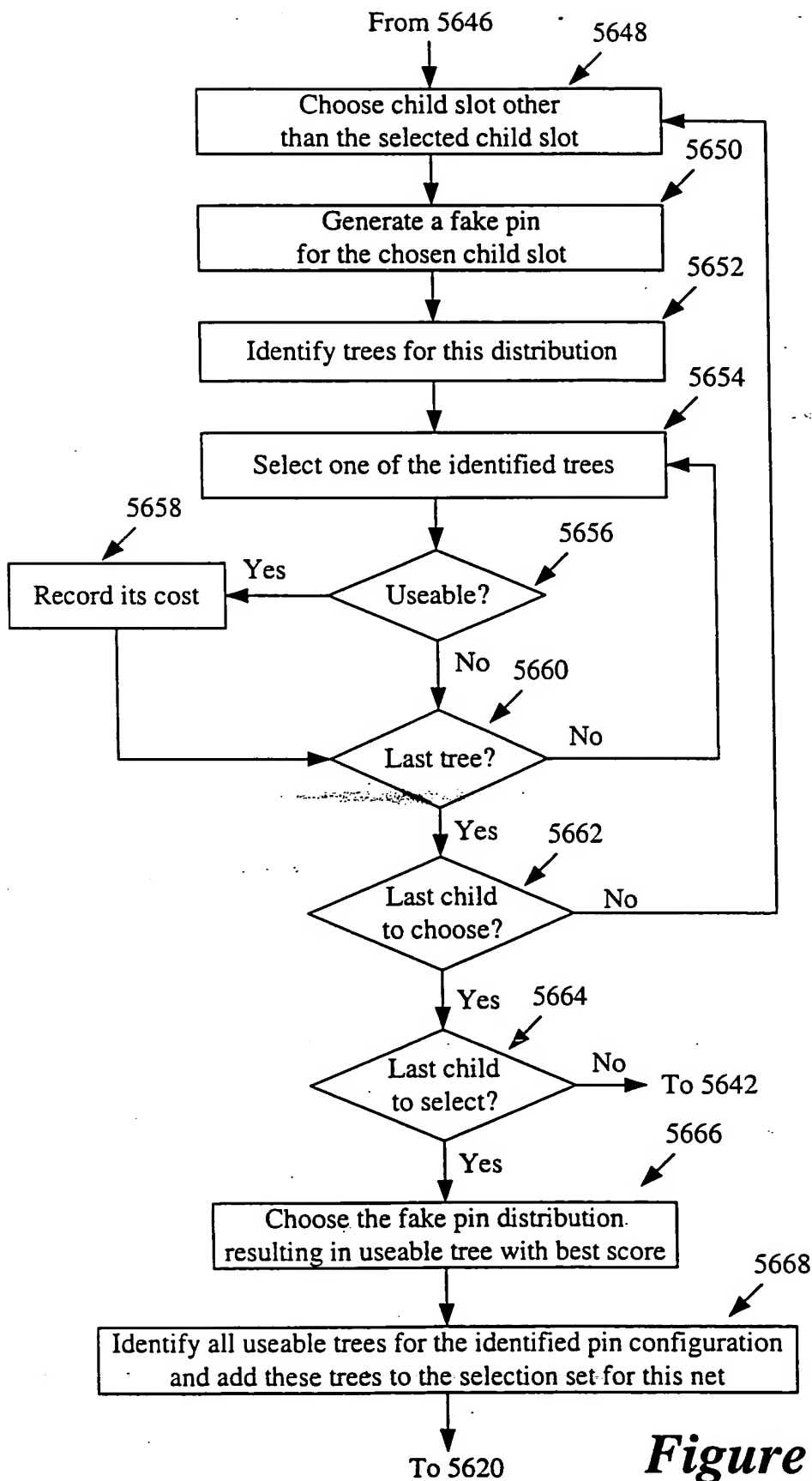
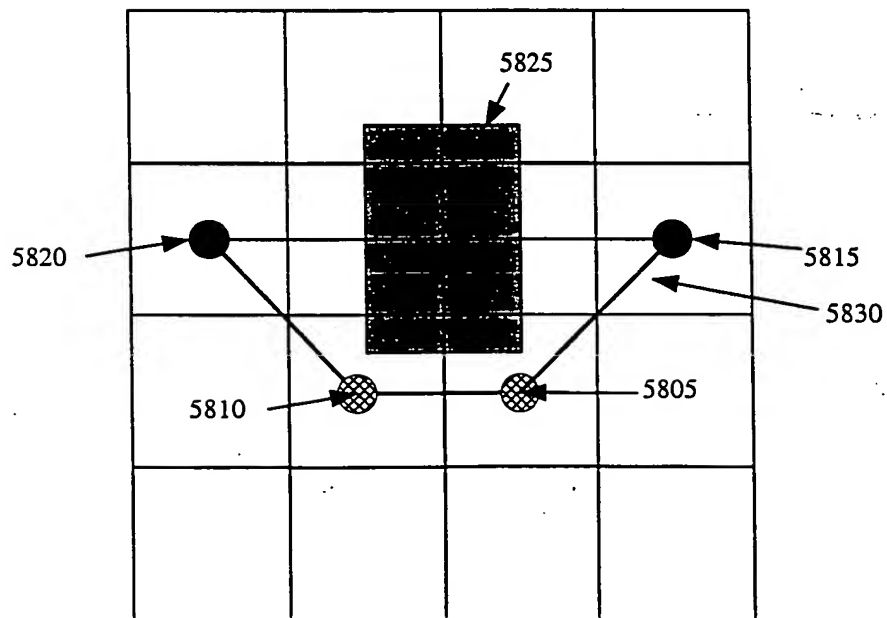
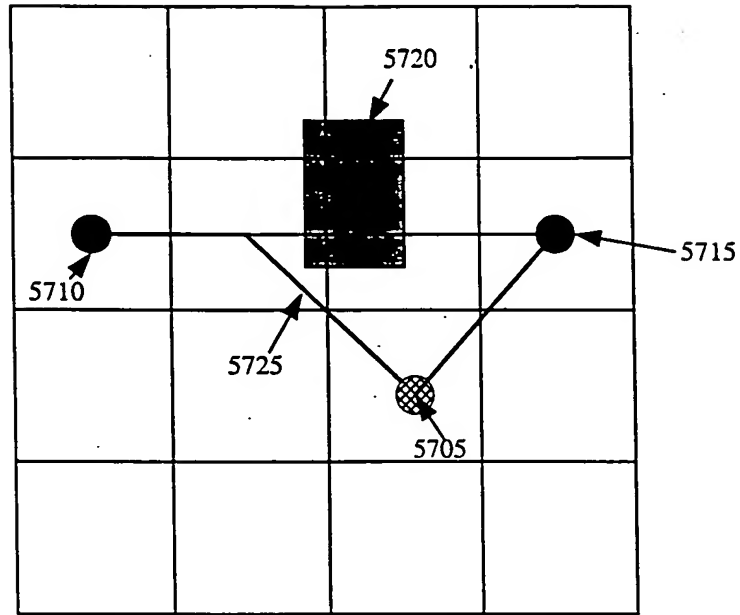


Figure 56D



2025-01-08 10:04:00

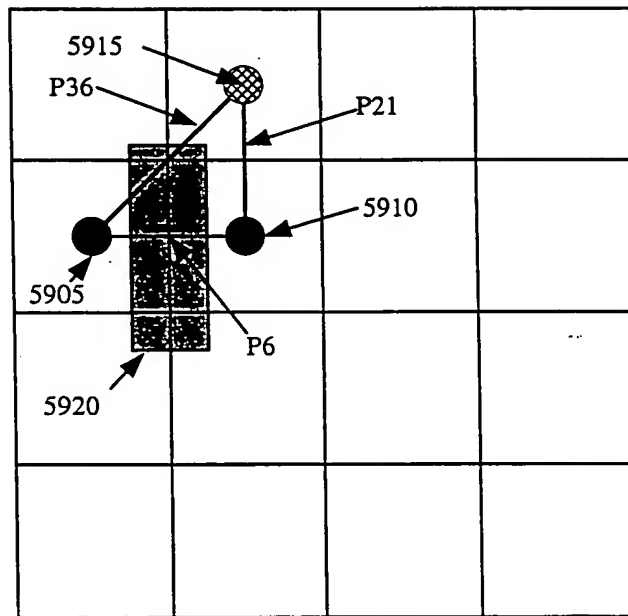


Figure 59

704600-0790

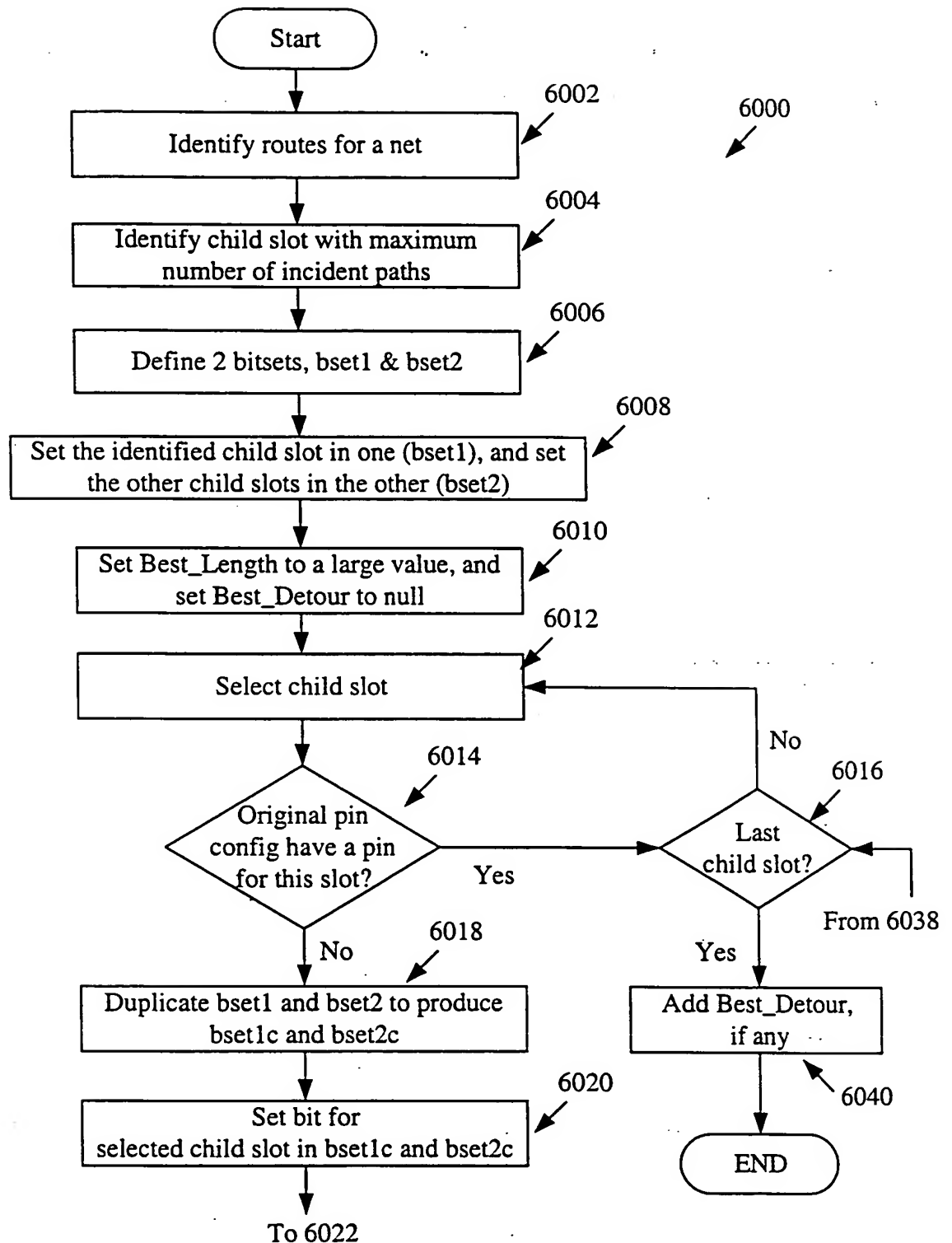


Figure 60A

Figure 60: $\frac{\text{Figure 60A}}{\text{Figure 60B}}$

BOOKS OF THE MONTH

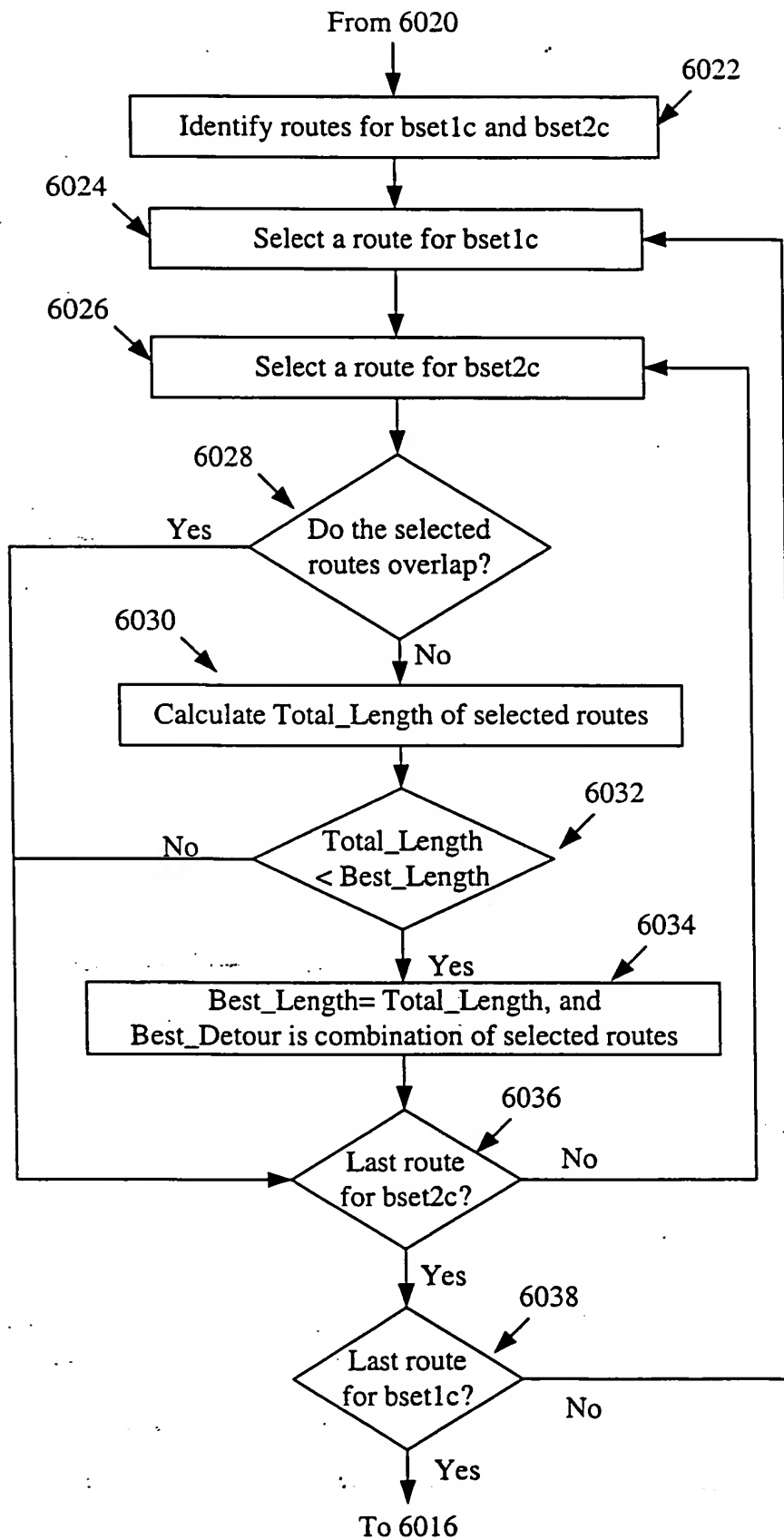


Figure 60B

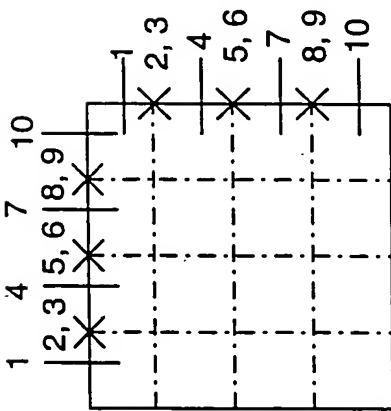


Figure 61

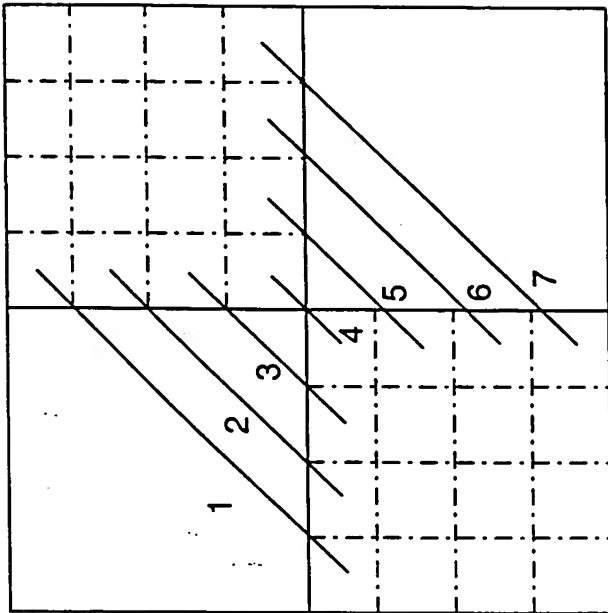


Figure 62

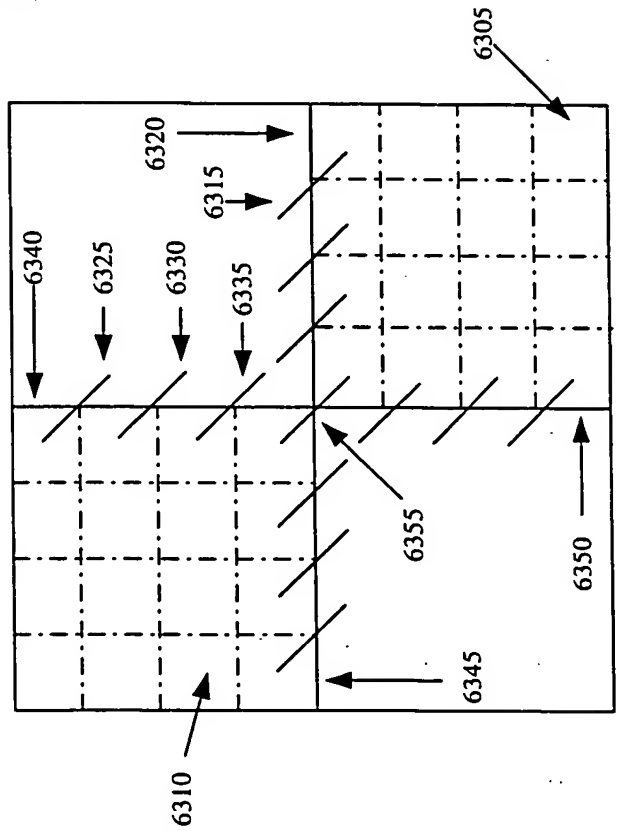


Figure 63

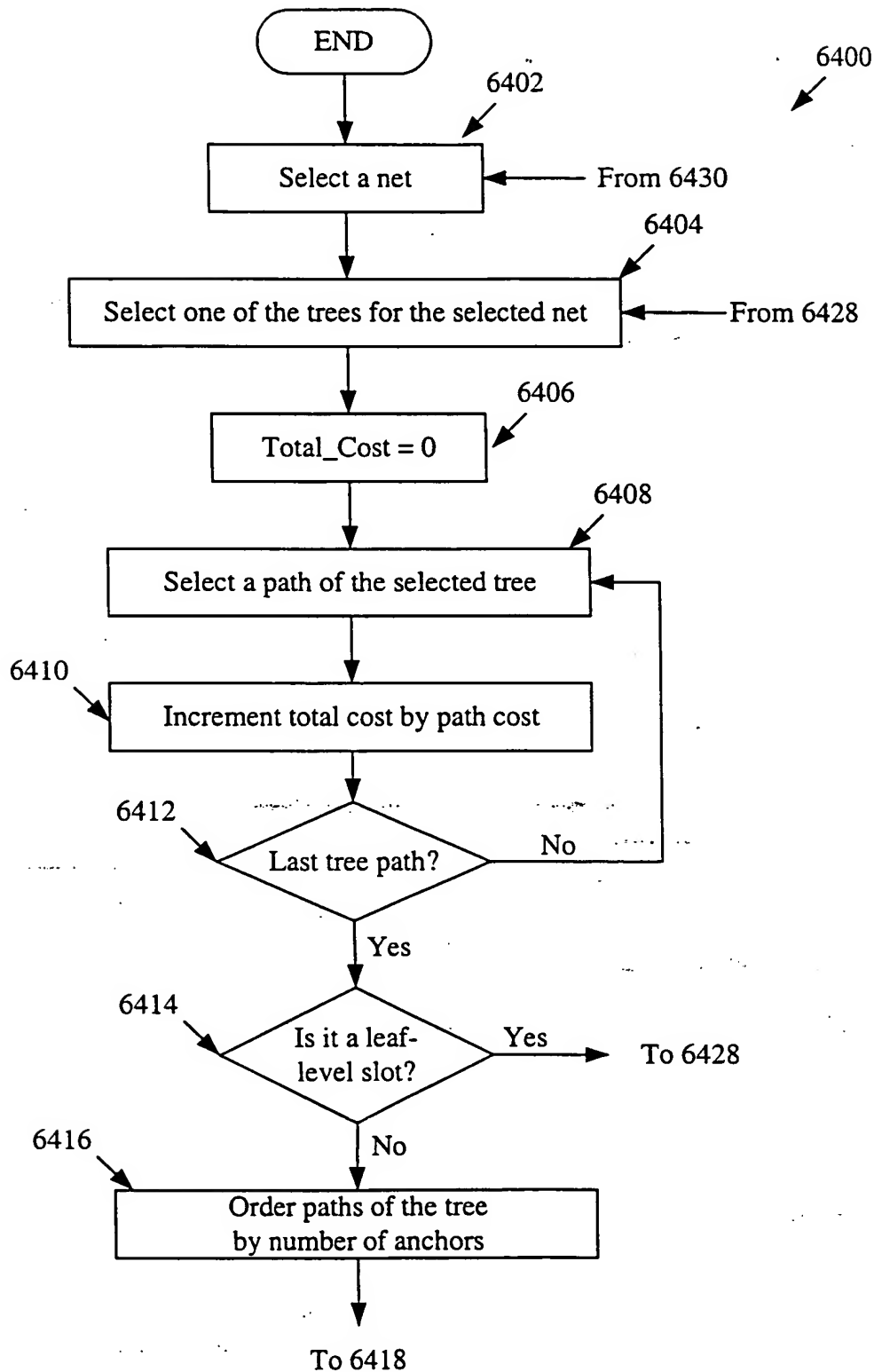


Figure 64A

Figure 64: Figure 64A
Figure 64B

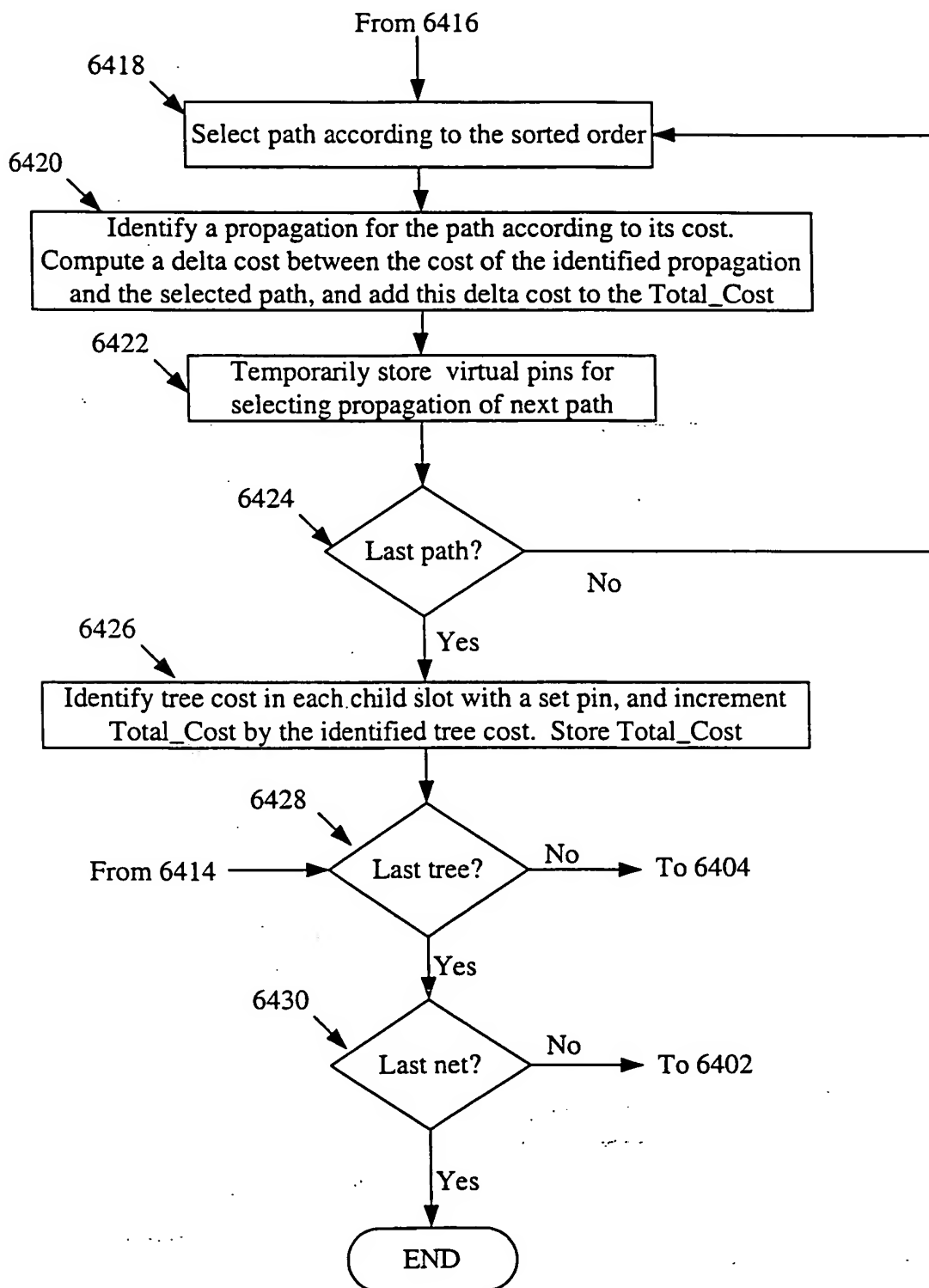


Figure 64B

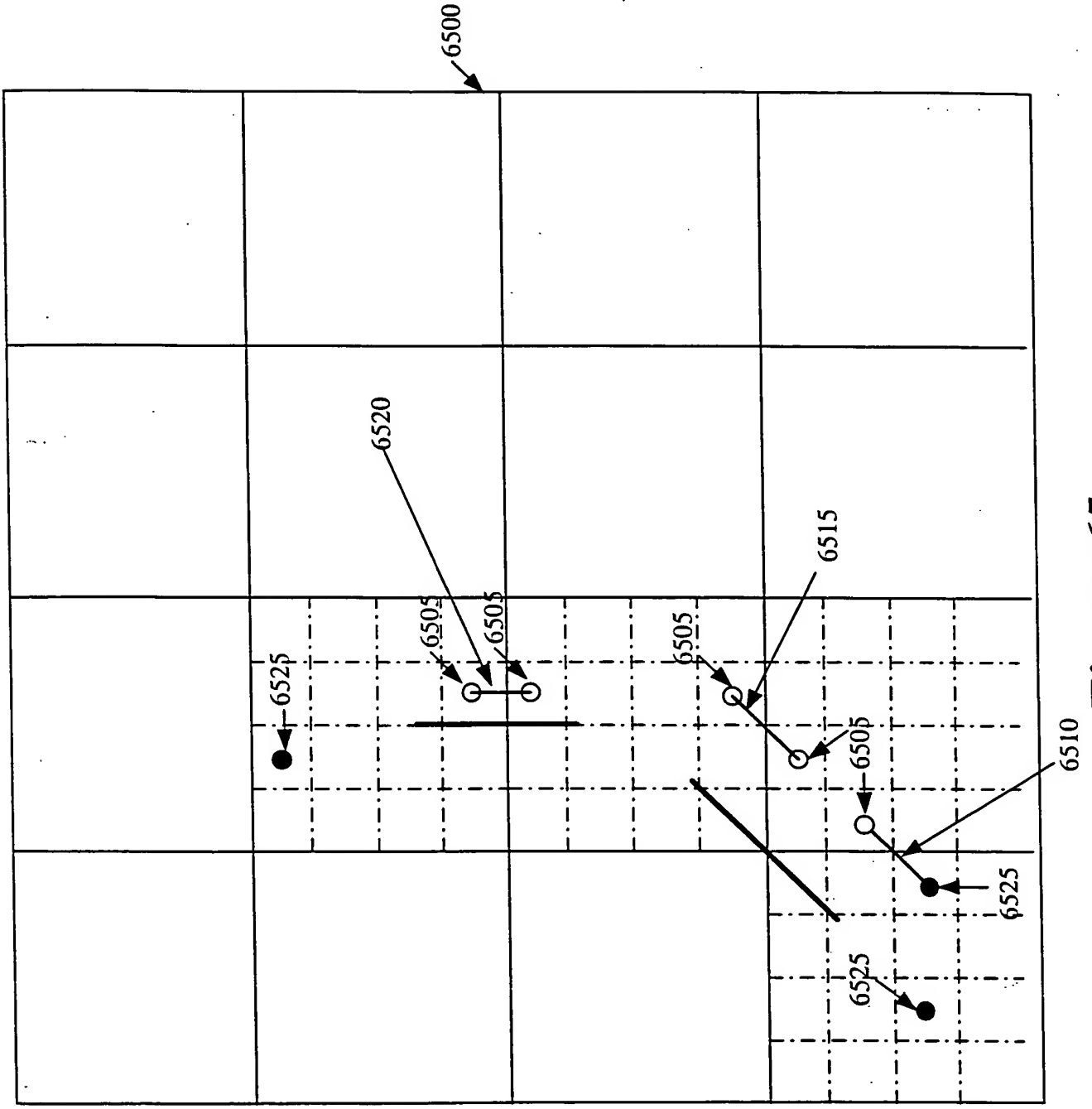


Figure 65

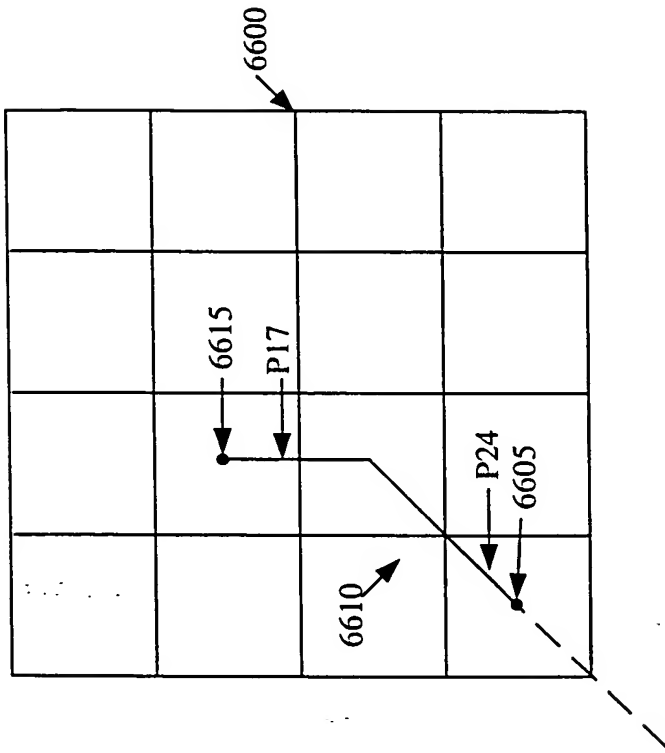


Figure 66

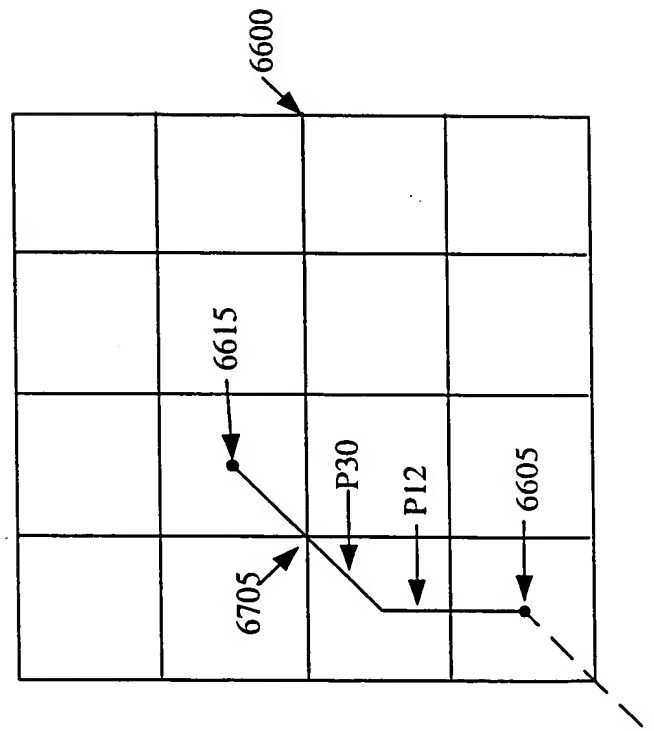


Figure 67

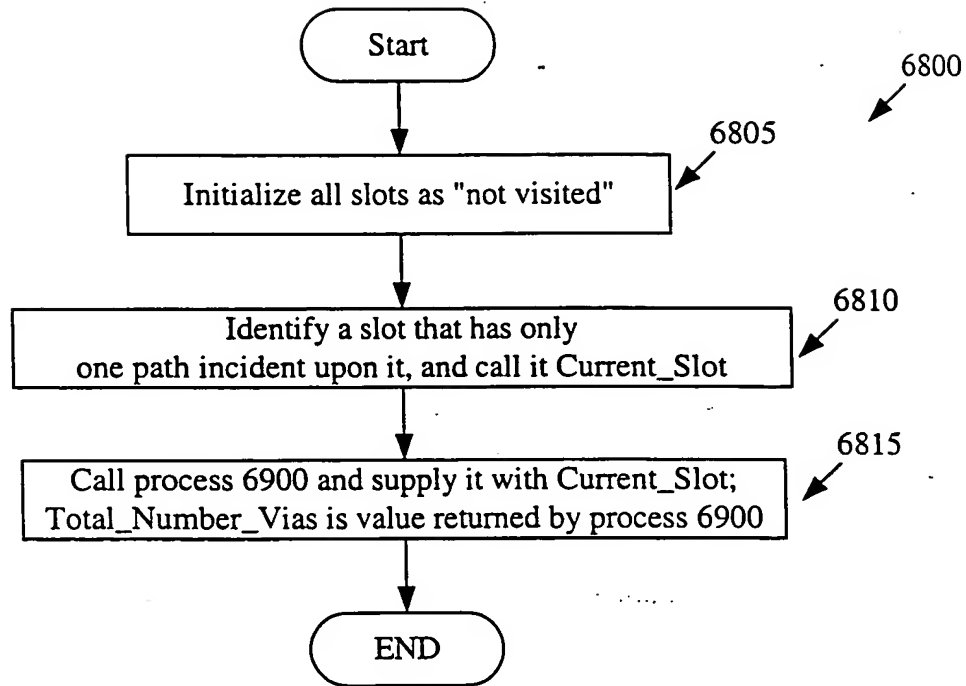


Figure 68

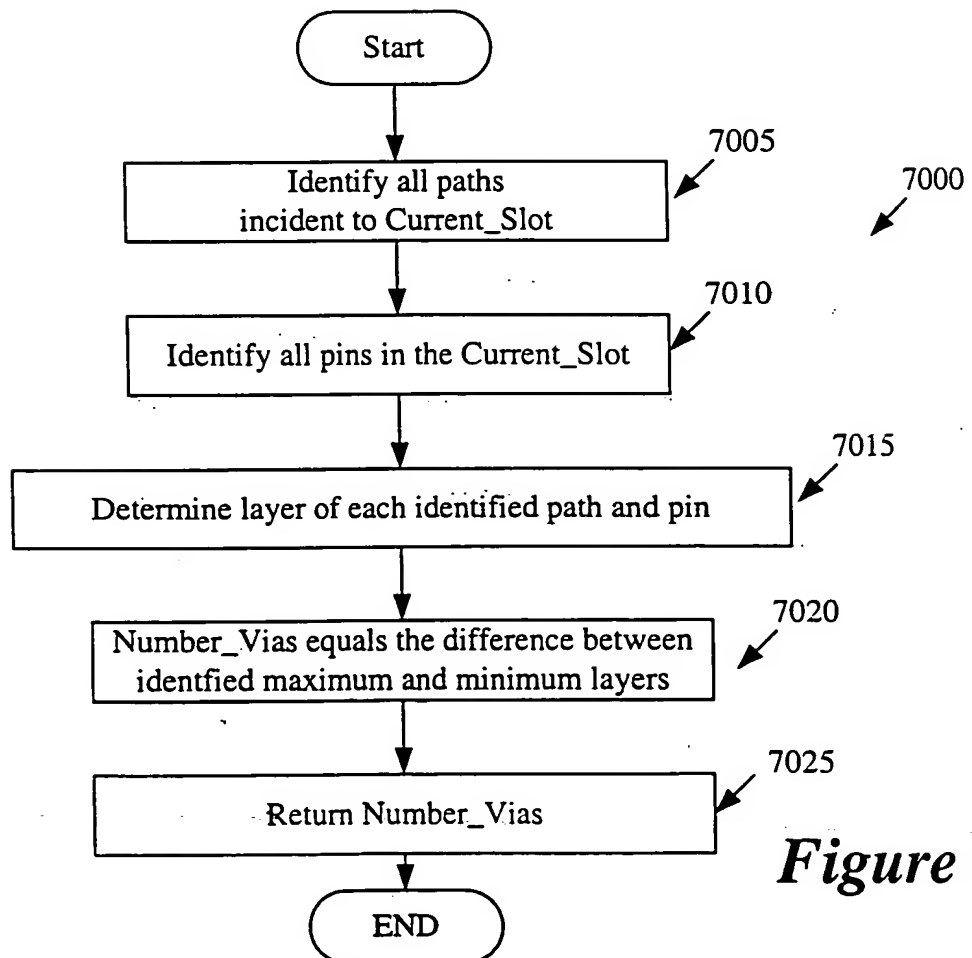


Figure 70

2025-03-04 10:43:00

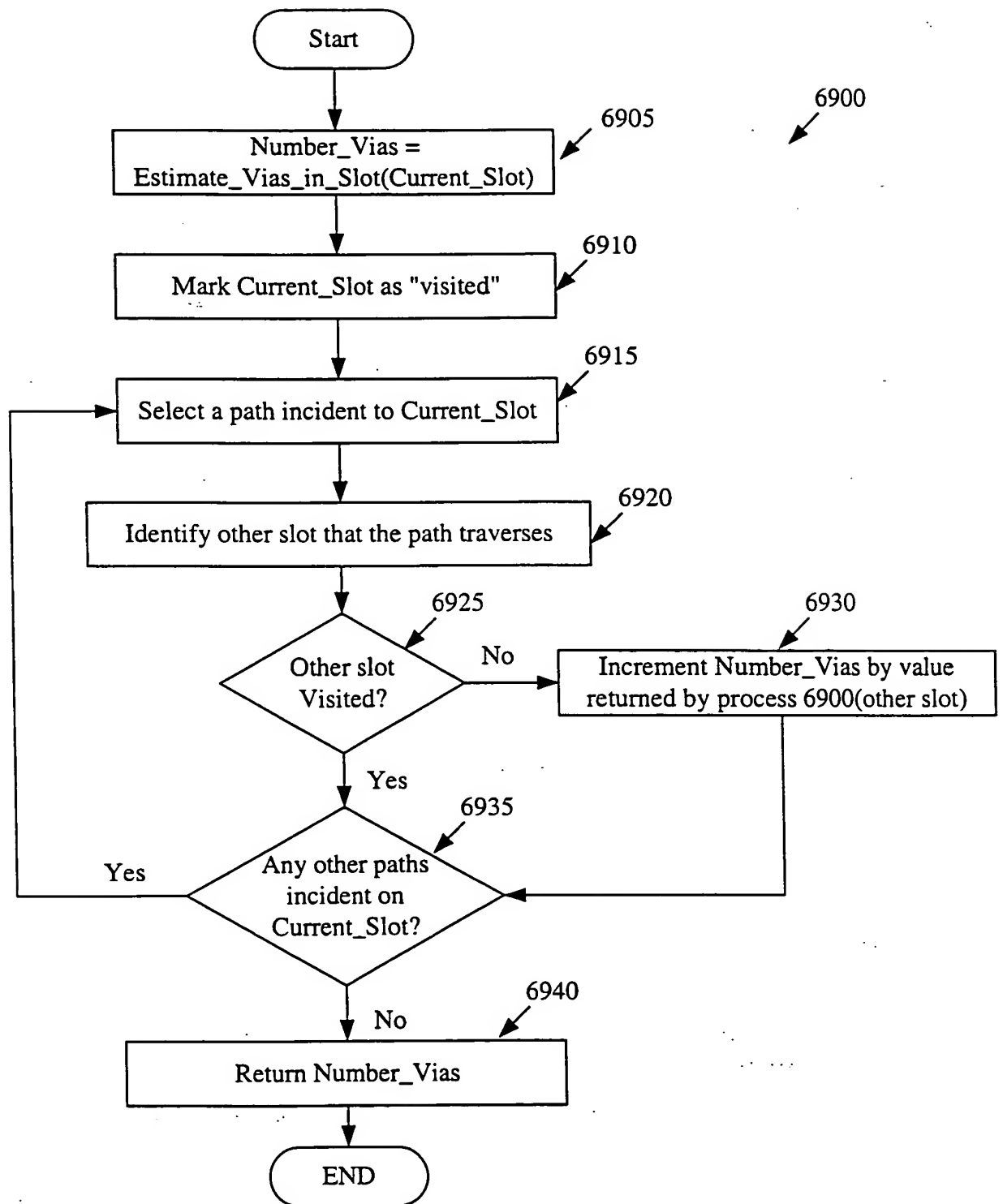


Figure 69

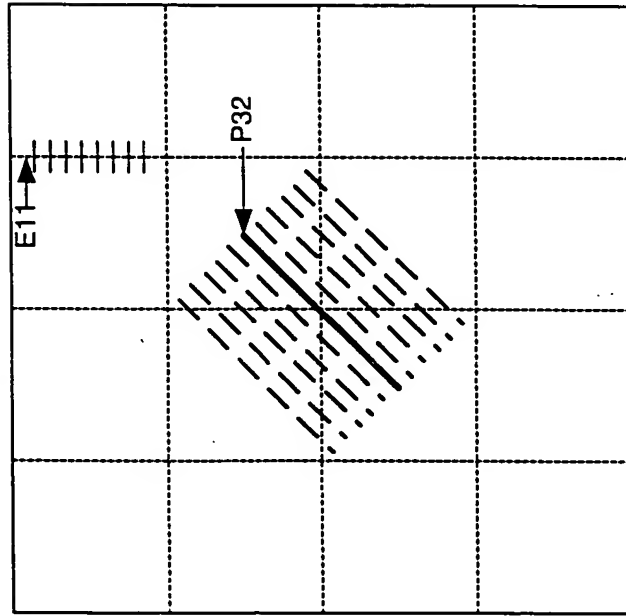


Figure 71

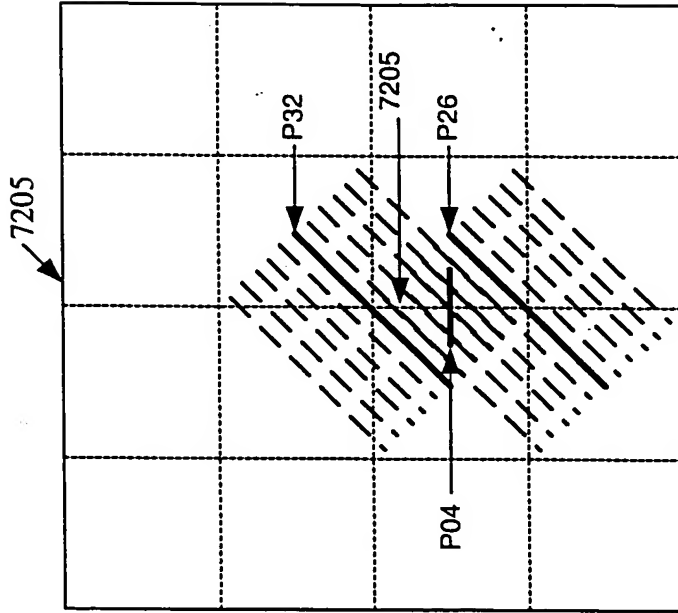


Figure 72

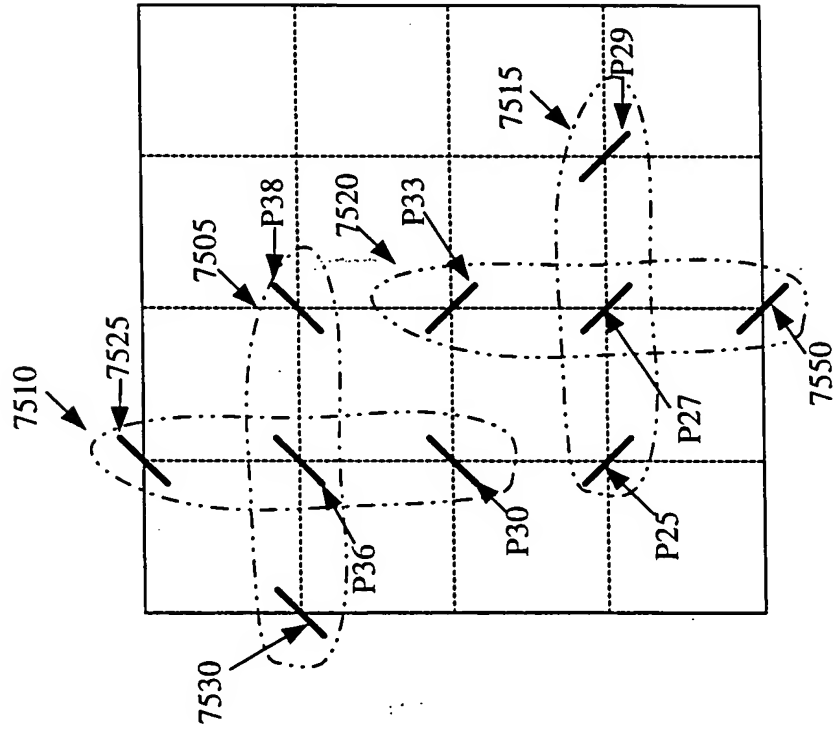


Figure 75

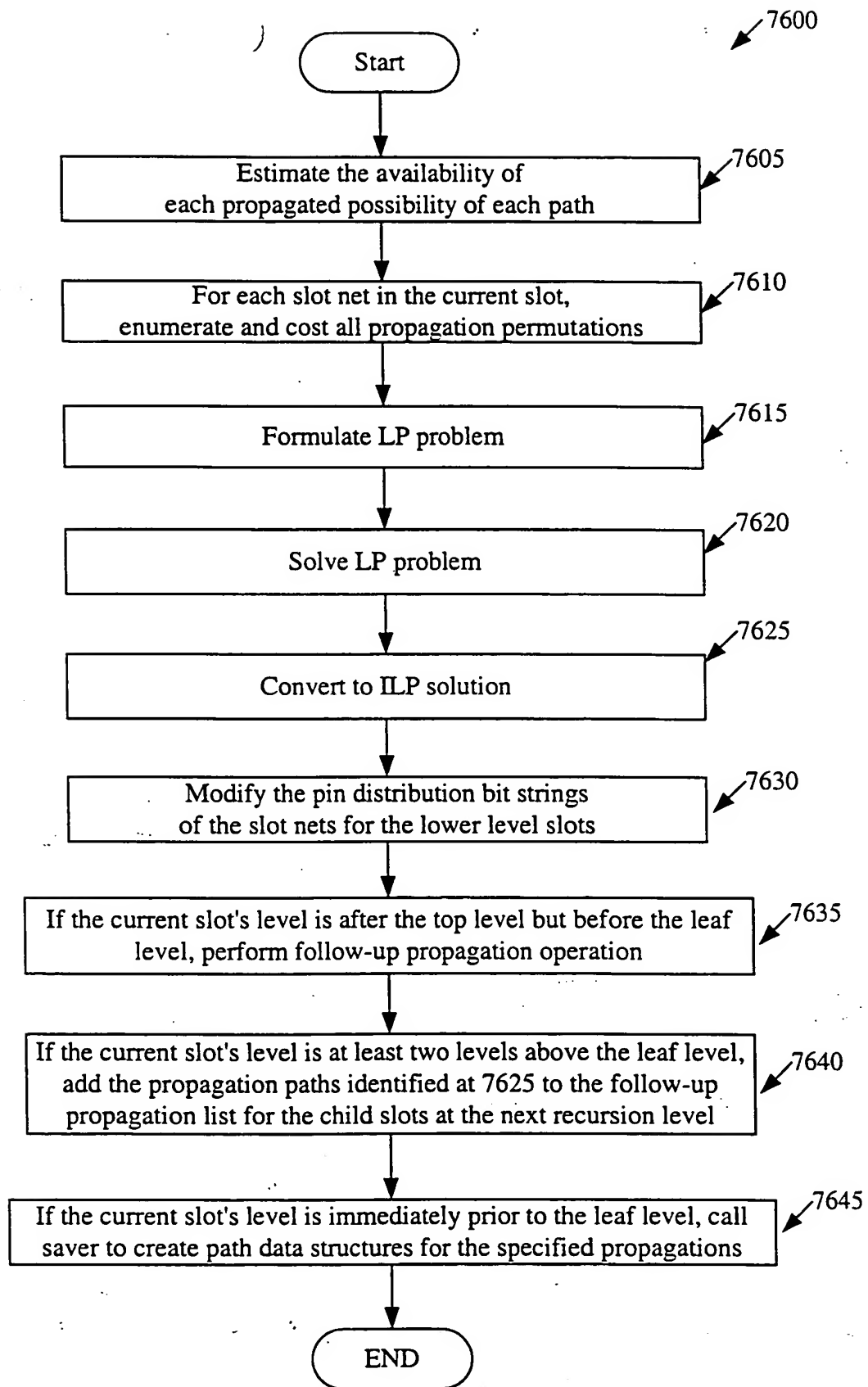


Figure 76

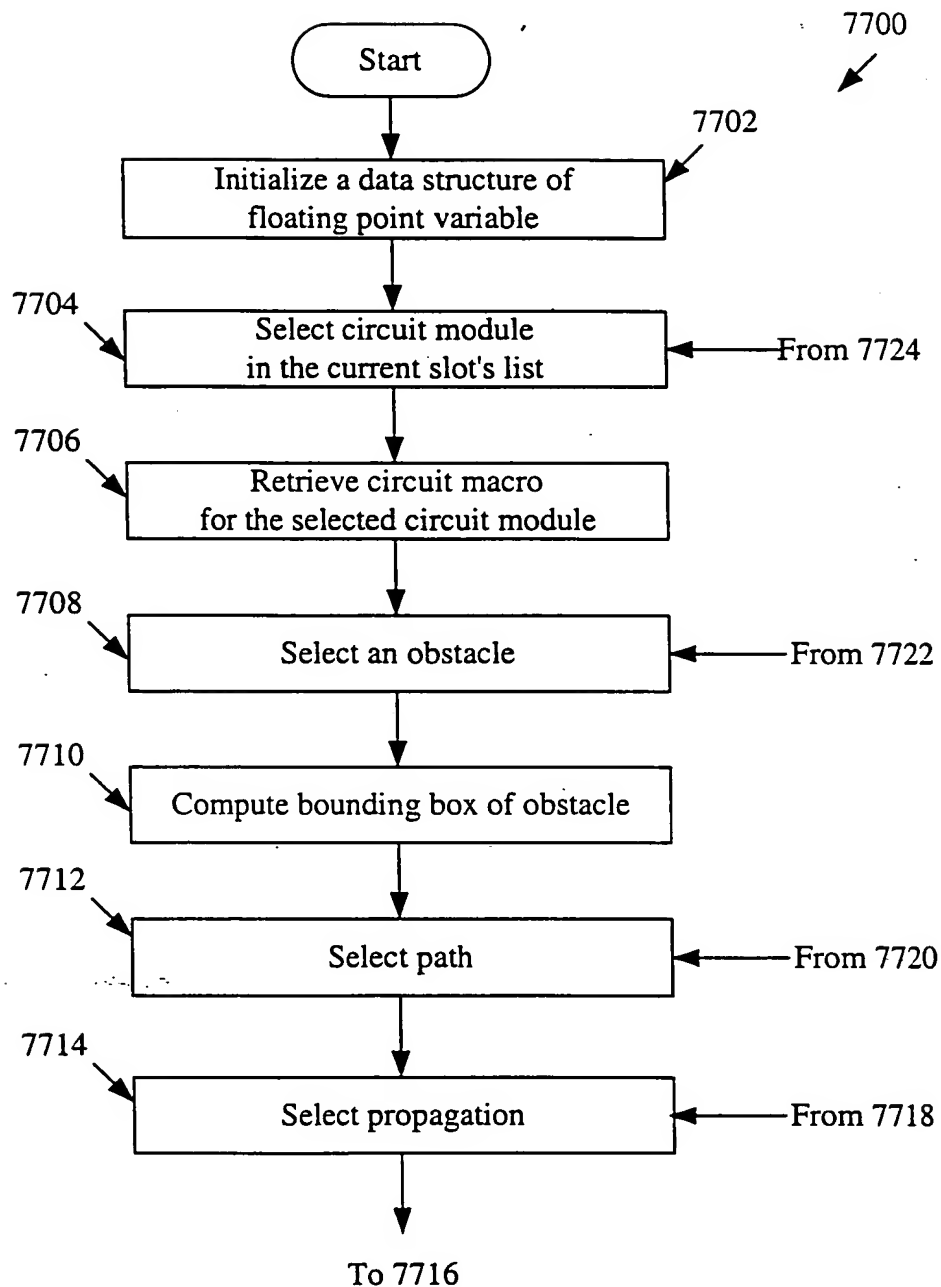


Figure 77A

Figure 77: $\frac{\text{Figure 77A}}{\text{Figure 77B}}$

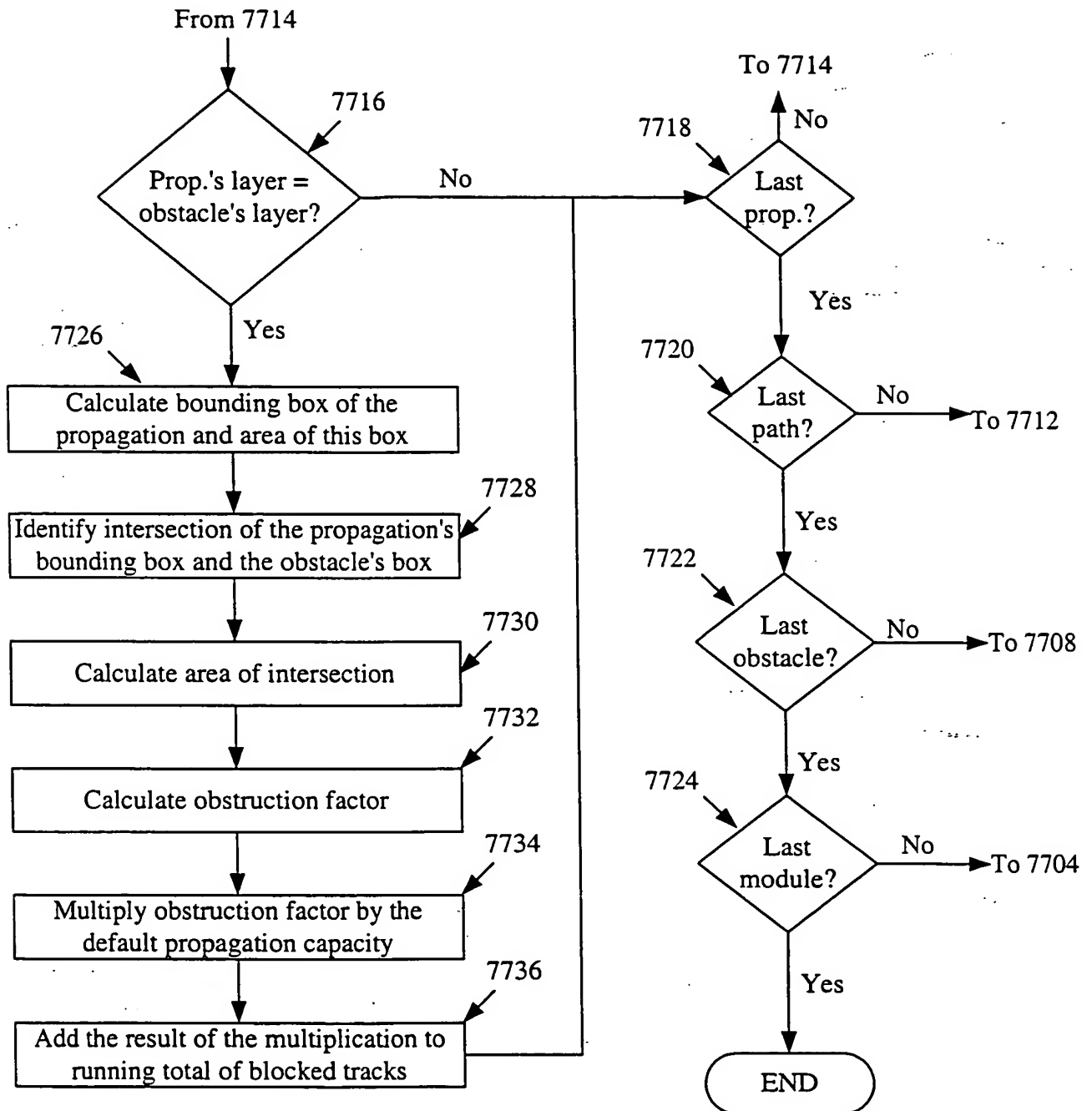


Figure 77B

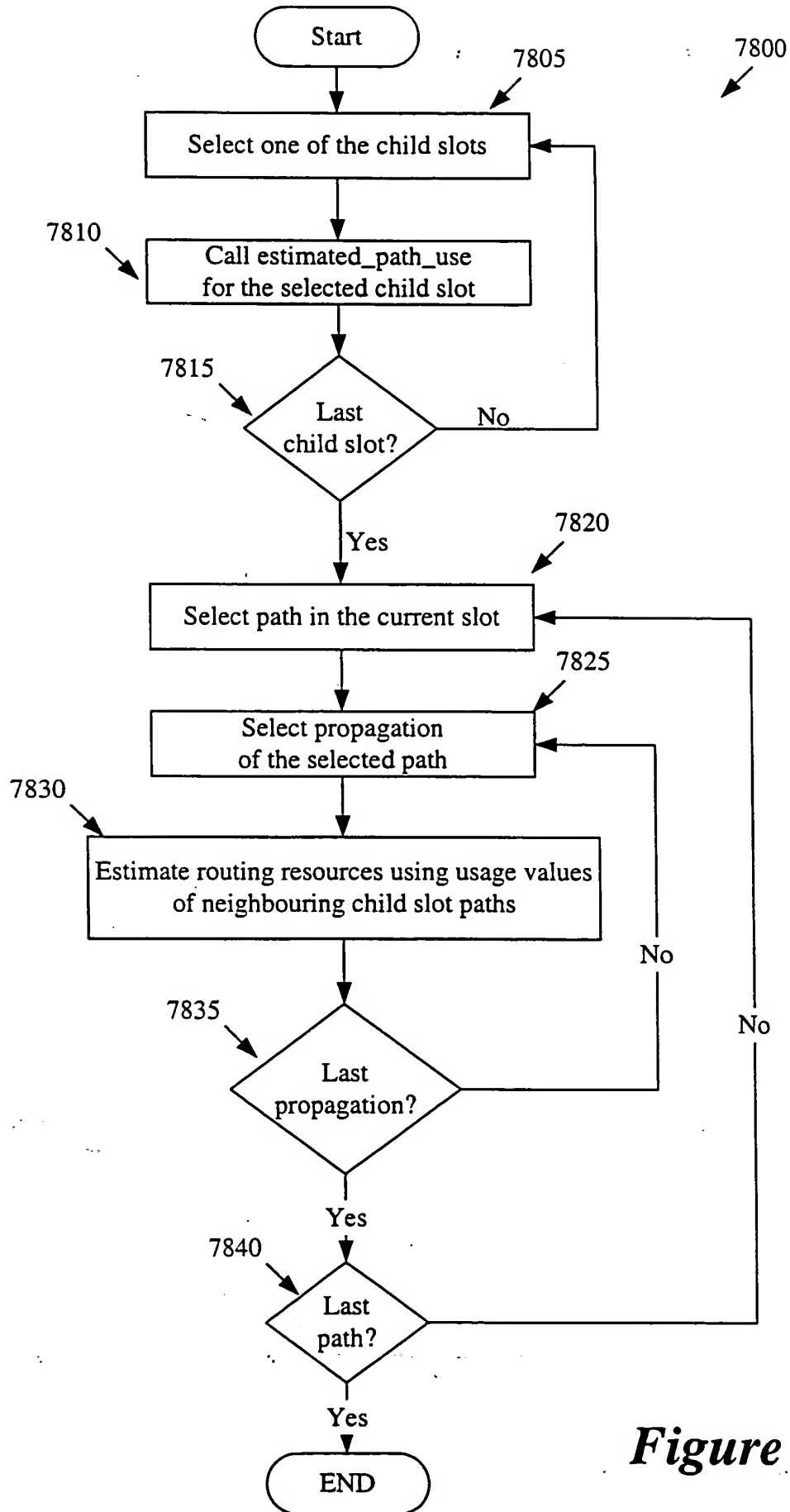


Figure 78

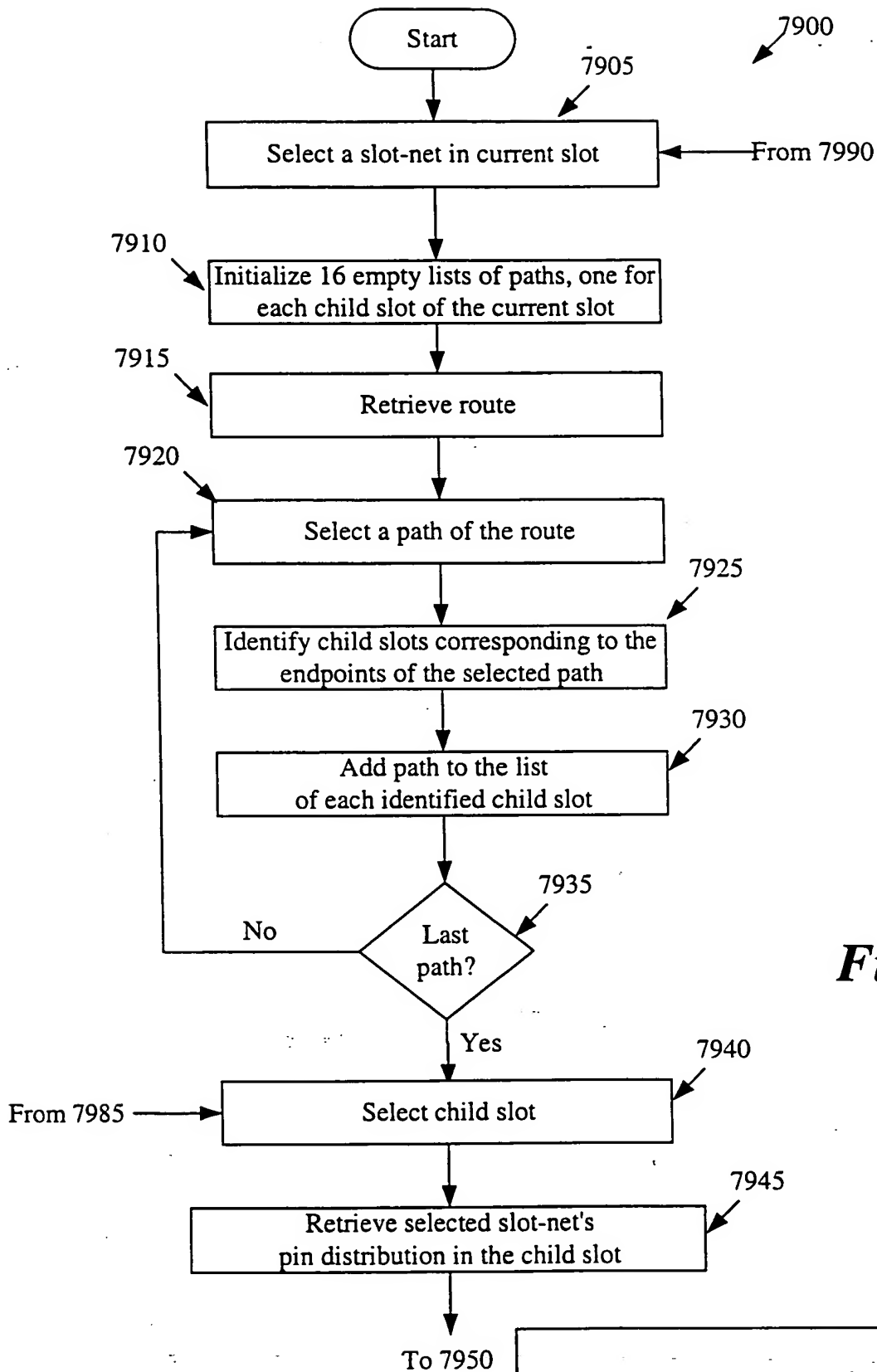


Figure 79A

Figure 79: Figure 79A
Figure 79B

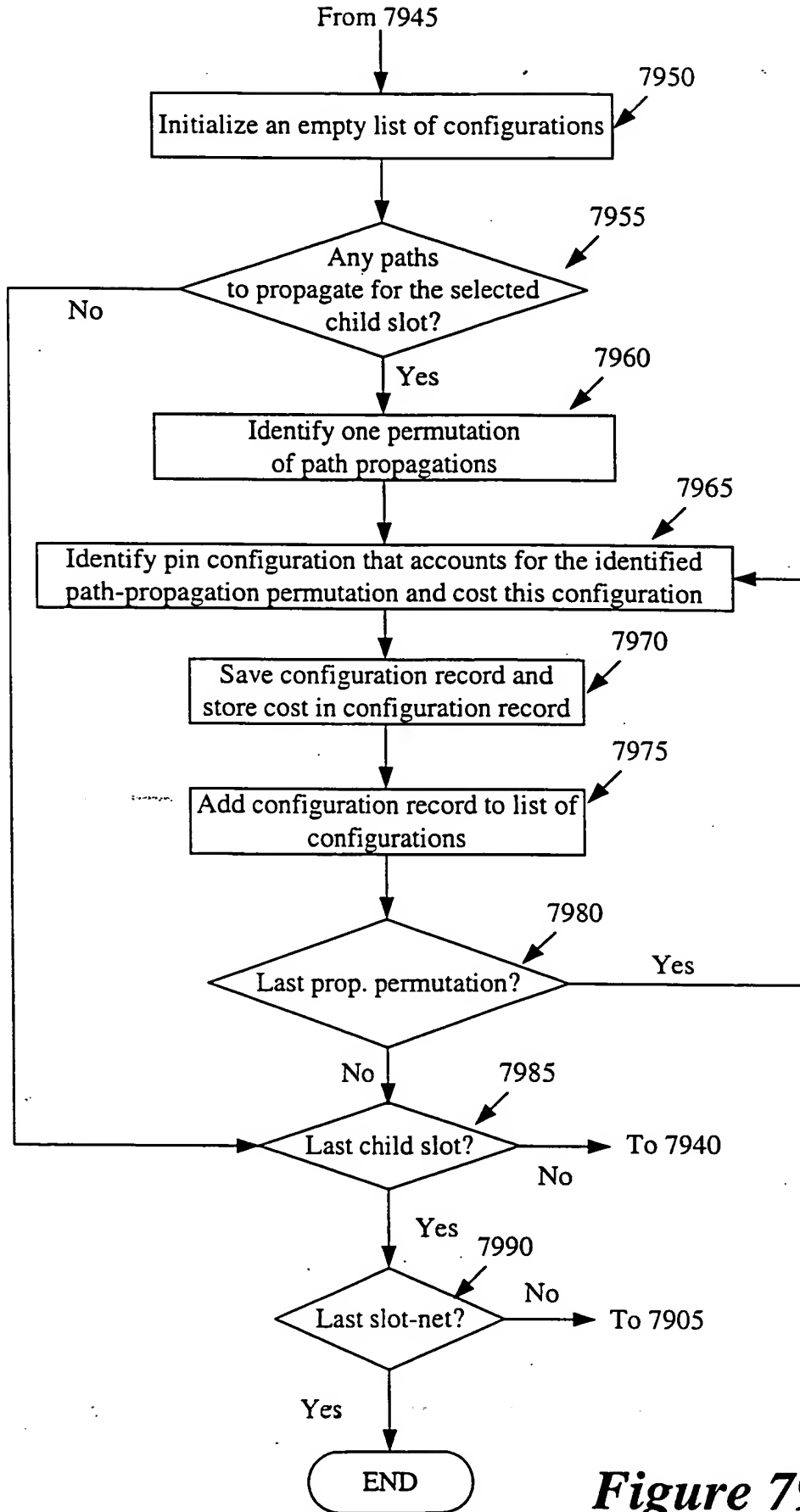


Figure 79B

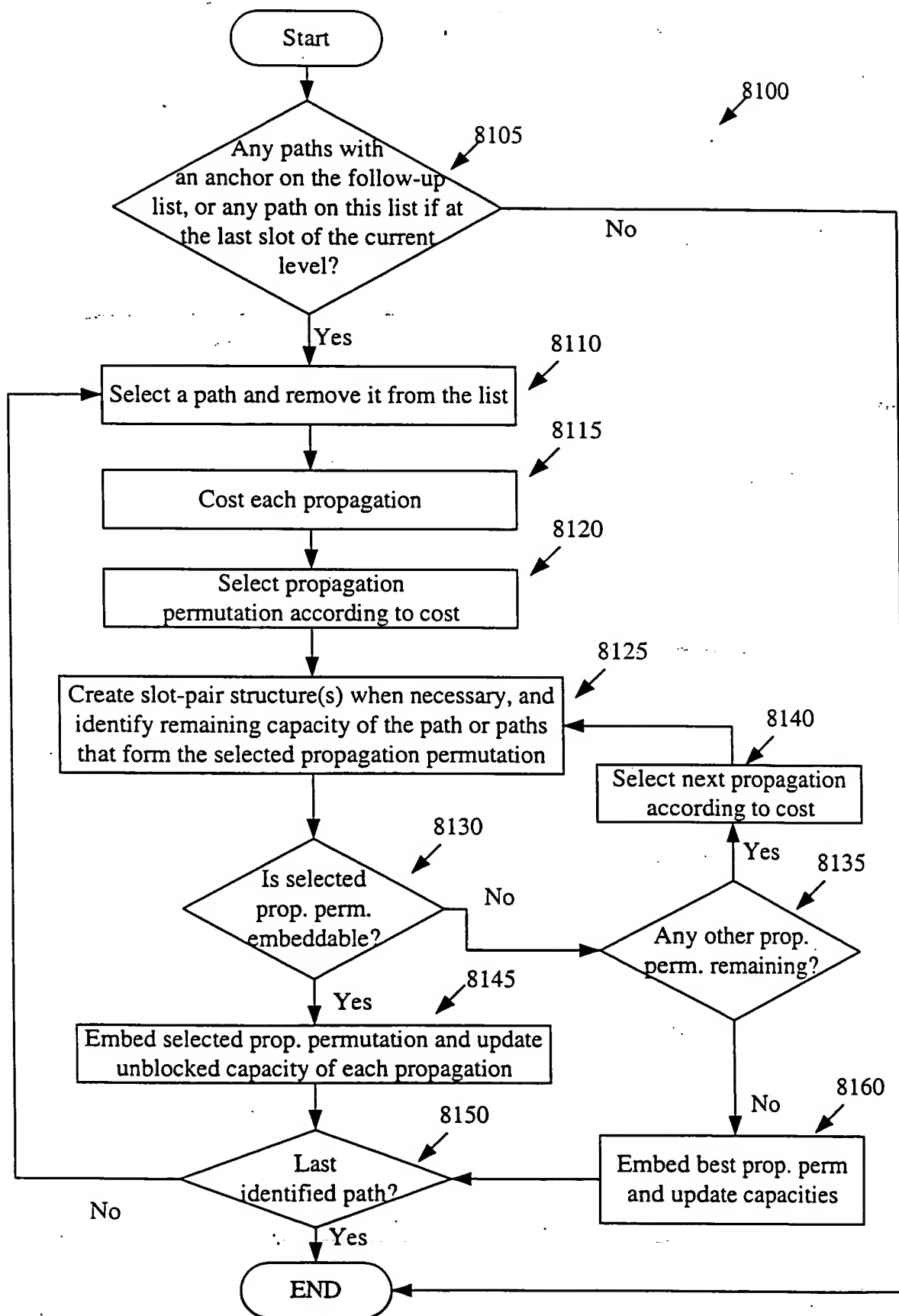


Figure 81

REF ID: A66400

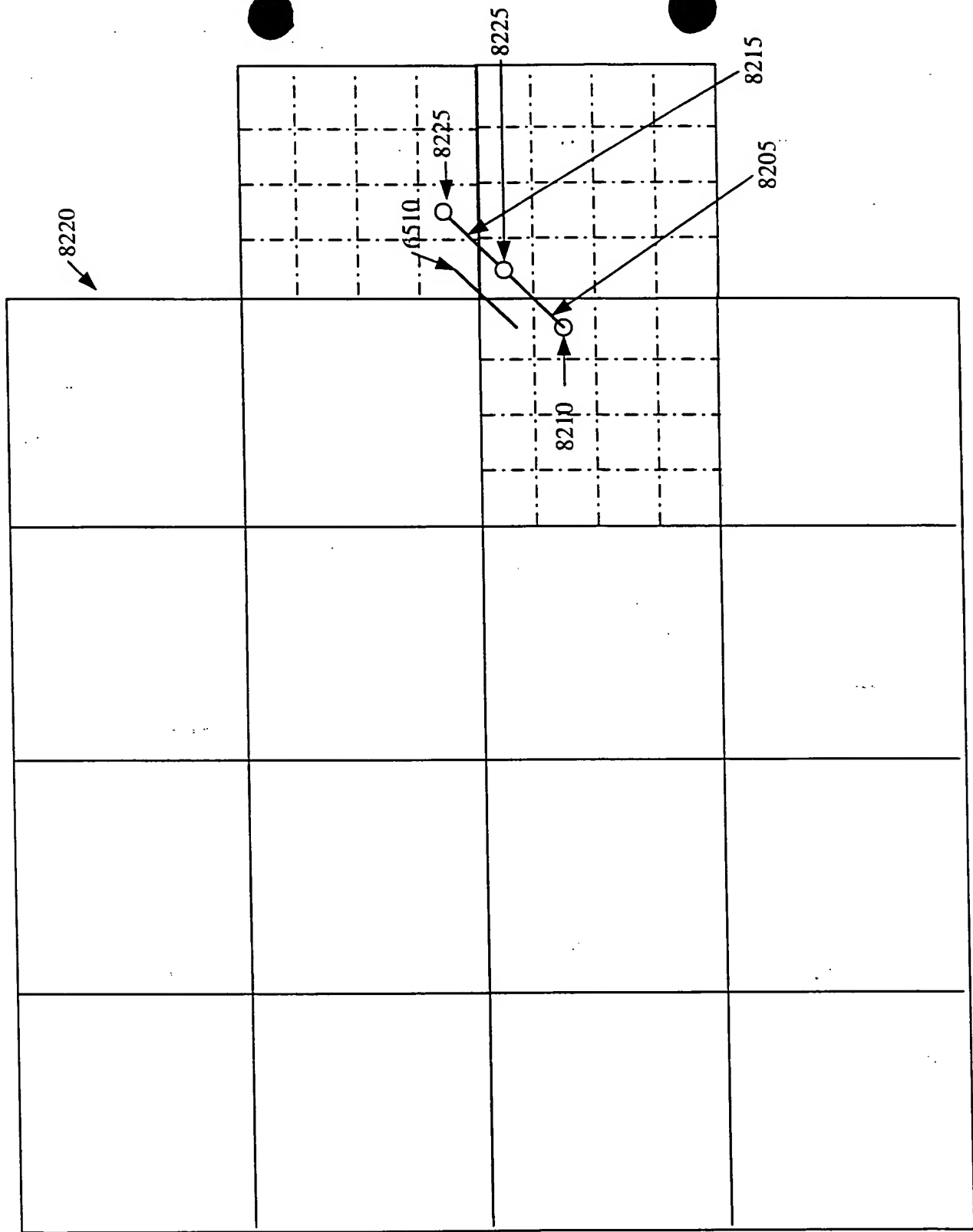


Figure 82

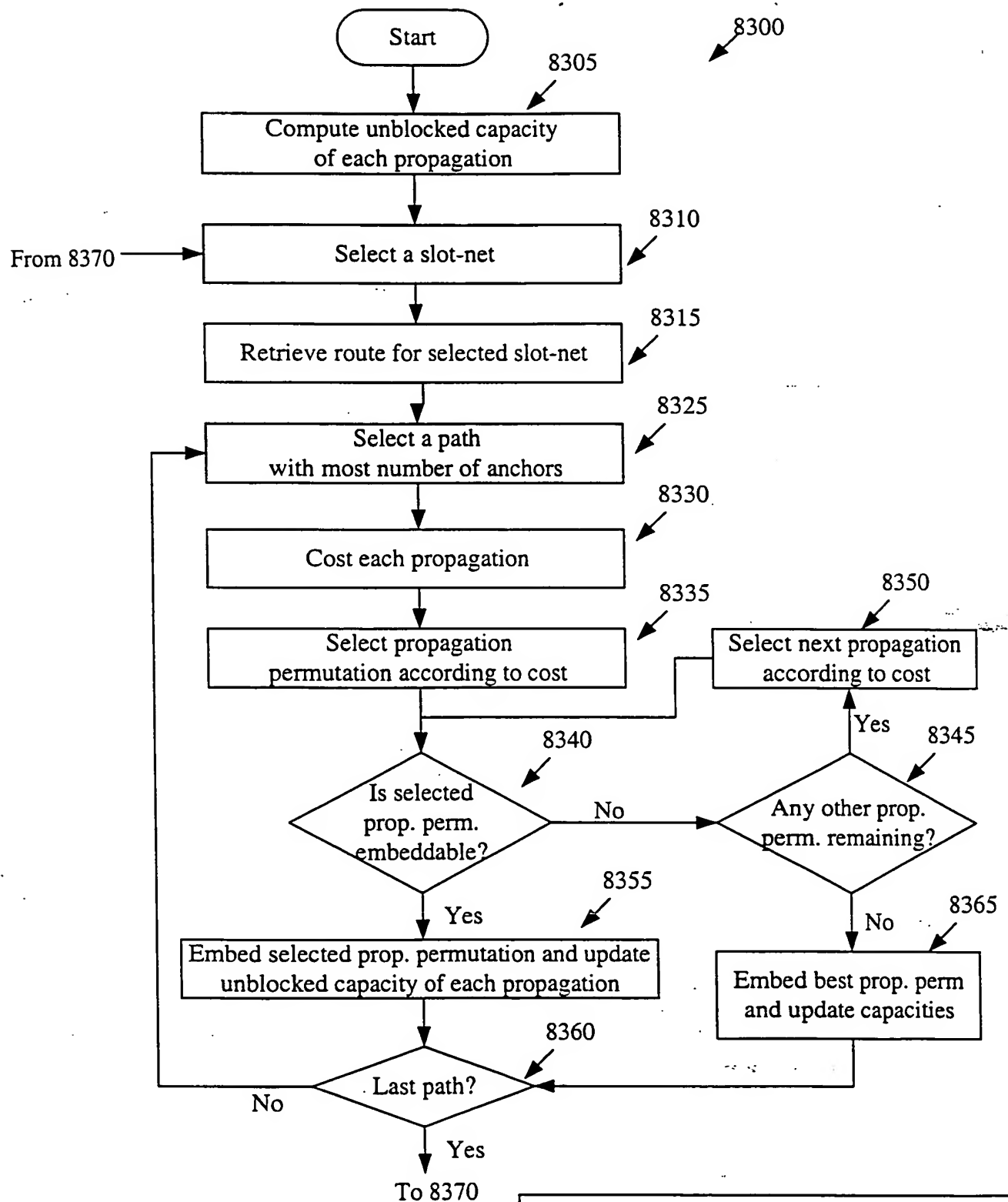


Figure 83A

Figure 83: *Figure 83A*
Figure 83B

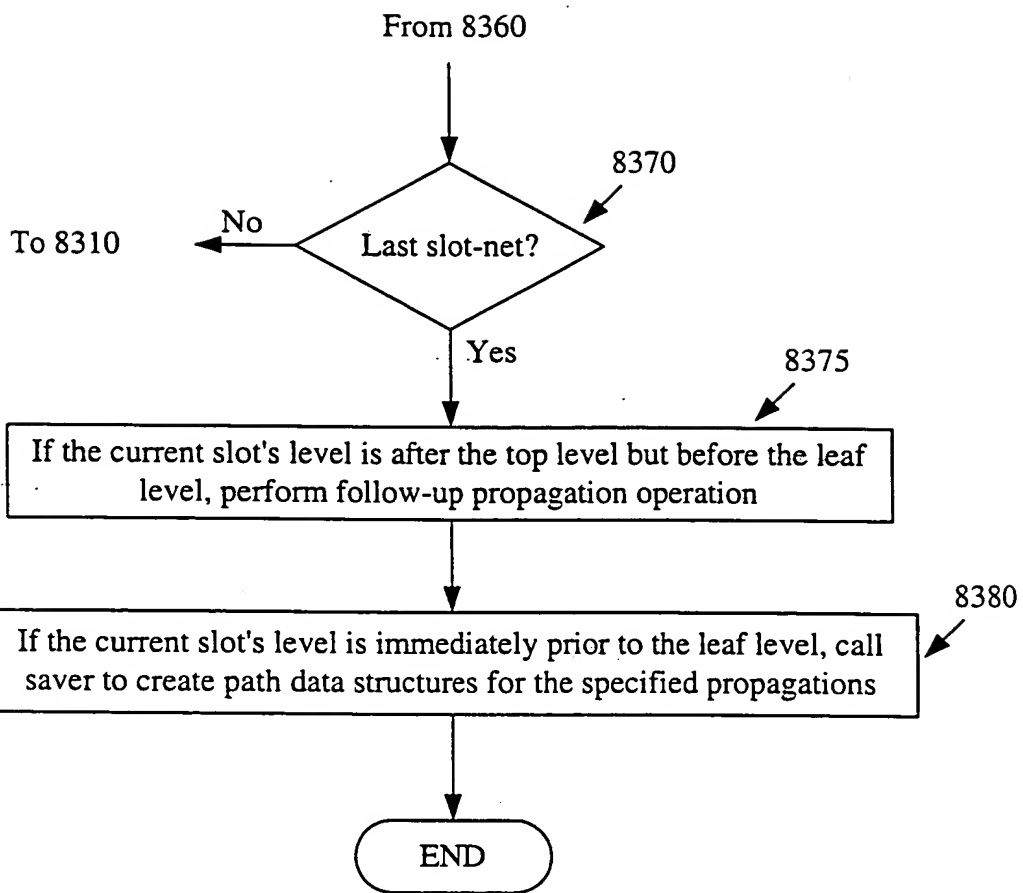


Figure 83B

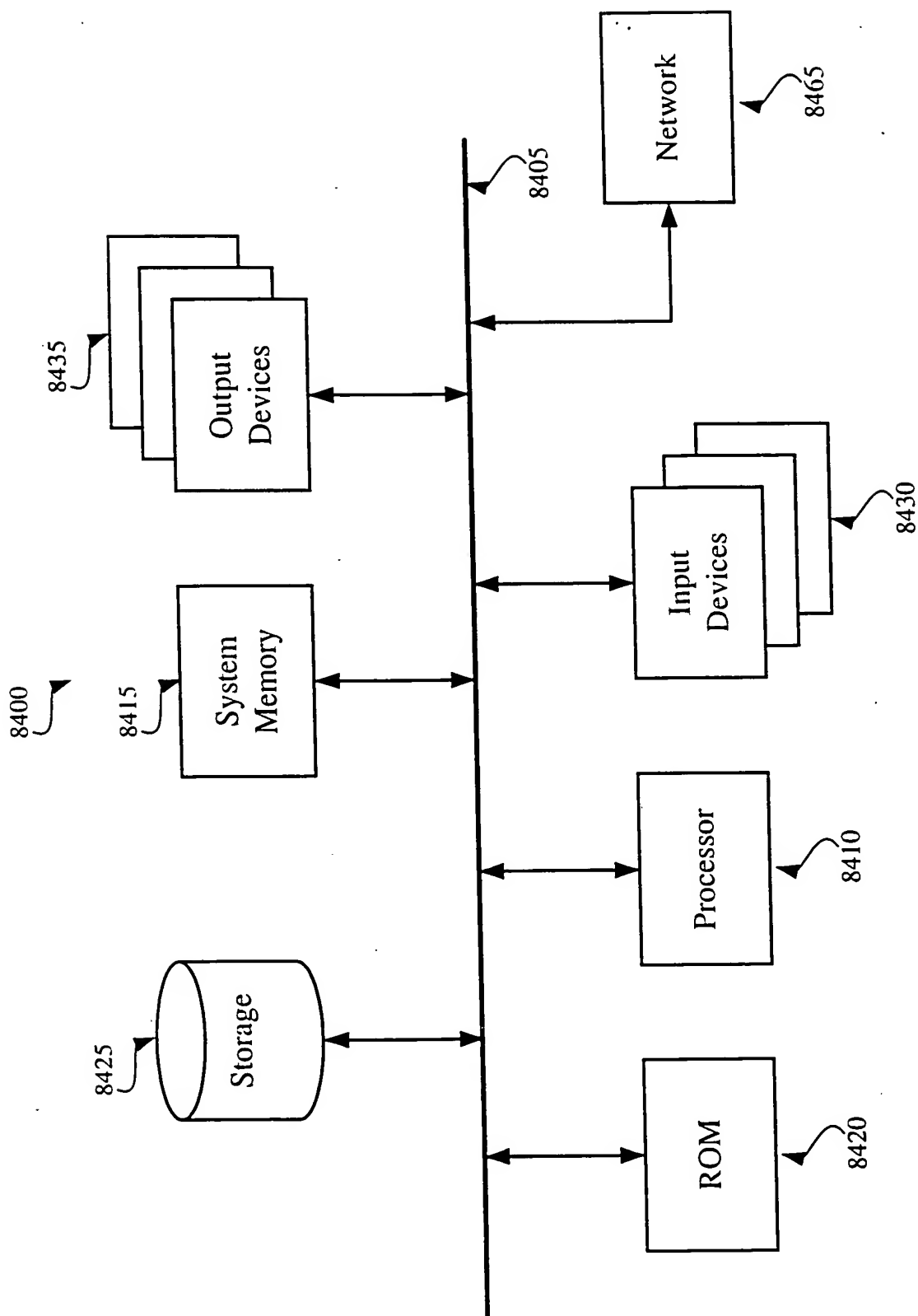


Figure 84